Form 3160-3
(August 1999)

RECEIVED
SEP 24 2007
DIV OF OIL, GAS & MINING

FORM APPROVED
OMB No. 1004-0136
Expires November 30, 2000

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.: 20G0005577

6. If Indian, Allottee or Tribe Name: Ute Indian Tribe

1a. Type of Work: ☒ DRILL ☐ REENTER

7. If Unit or CA Agreement, Name and No.: N/A

1b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other ☐ Single Zone ☒ Multiple Zone

8. Lease Name and Well No.: North Hill Creek 14-8-15-20

2. Name of Operator: Wind River Resources Corporation

9. API Well No.: 43-047-39646

3a. Address: 1245 E. Brickyard Rd., Ste. 110, Salt Lake City, UT 84106

3b. Phone No. *(include area code)*: 435-466-4131

10. Field and Pool, or Exploratory: Exploratory Wildcat

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*

At surface: 195' FNL & 2,419' FWL (NENW) Sec. 17-T15S-R20E

At proposed prod. zone: 175' FSL & 2,449' FWL (SESW) Sec. 8-T15S-R20E

11. Sec., T., R., M., or Blk. and Survey or Area: Sec. 17-T15S-R20E, SLB&M

14. Distance in miles and direction from nearest town or post office*: Approximately 55 miles SSE of Roosevelt

12. County or Parish: Uintah

13. State: Utah

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any): 195'

16. No. of Acres in lease: 640

17. Spacing Unit dedicated to this well: 40 acres

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.: 4,950' from bottom hole to bottom hole

19. Proposed Depth: 12,500' (TVD) 12,516' (MD)

20. BLM/BIA Bond No. on file: Zions Bank - SB-509795

21. Elevations (Show whether DF, KDB, RT, GL, etc.): 7,243' (GL)

22. Approximate date work will start*: Upon Approval

23. Estimated duration: 35 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature: Marc E. Eckels — Name *(Printed/Typed)*: Marc E. Eckels — Date: 9-20-07

Title: Vice President

Approved by *(Signature)*: Bradley G. Hill — Name *(Printed/Typed)*: BRADLEY G. HILL — Date: 09-27-07

Title — Office: ENVIRONMENTAL MANAGER

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

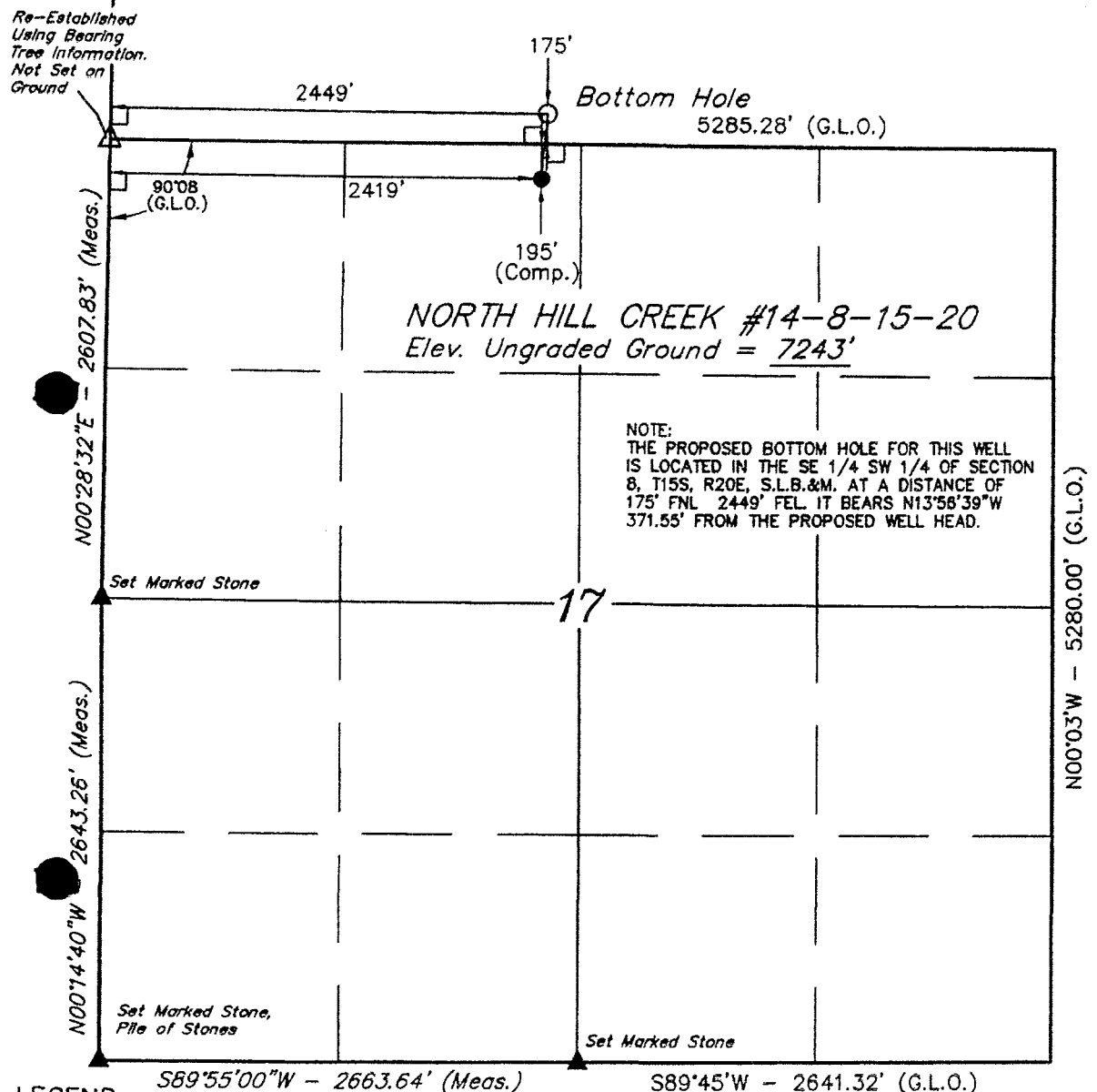
**(Instructions on reverse)*

Surf
611531X
4375005Y
39.519332
-109.702506

BHL
611539X
4375118Y
39.520350
-109.702389

Federal Approval of this Action is Necessary

T15S, R20E, S.L.B.&M.



LEGEND:

- └ = 90° SYMBOL
- ● = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.
- △ = SECTION CORNERS RE-ESTABLISHED (NOT SET ON GROUND)

(NAD 83)
LATITUDE = 39°31'09.62" (39.519339)
LONGITUDE = 109°42'11.55" (109.703208)
(NAD 27)
LATITUDE = 39°31'09.75" (39.519375)
LONGITUDE = 109°42'09.06" (109.702517)

WIND RIVER RESOURCES CORP.

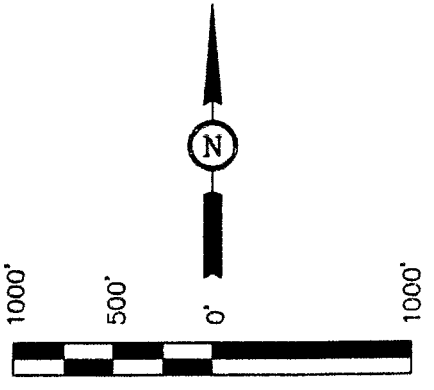
Well location, NORTH HILL CREEK #14-8-15-20, located as shown in the NE 1/4 NW 1/4 of Section 17, T15S, R20E, S.L.B.&M., Uintah County, Utah.

BASIS OF ELEVATION

BENCH MARK (59 WF) LOCATED IN THE NW 1/4 OF SECTION 10, T15S, R20E, S.L.B.&M. TAKEN FROM THE FLAT ROCK MESA QUADRANGLE, UTAH, UINTAH COUNTY 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 7449 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



SCALE

CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

ROBERT L. KAY
REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

REVISED: 09-24-07

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

SCALE	DATE SURVEYED:	DATE DRAWN:
1" = 1000'	05-25-07	08-15-07
PARTY: D.R. K.A. C.H.	REFERENCES: G.L.O. PLAT	
WEATHER: HOT	FILE: WIND RIVER RESOURCES CORP.	

DRILLING PLAN
WIND RIVER RESOURCES CORP.

NORTH HILL CREEK 14-8-15-20 (Directional)

1. Estimated Formation Tops (Depth from Surface):

Green River @ Surface

Wasatch = 2,541' (TVD) / 2,541' (MD) - Oil and/or gas anticipated at +/- 4,000' MD and below

Mesaverde Formation = 4,699' (TVD) / 4,699' (MD) - Gas

Castlegate Sandstone = 6,563' (TVD) / 6,565' (MD) - Gas

Mancos Shale = 6,813'(TVD) / 6,816' (MD) - Gas

Dakota Silt = 10,501' (TVD) / 10,517' (MD) – Gas

Dakota Sandstone = 10,648' (TVD) / 10,662' (MD) - Gas

Cedar Mountain Formation = 10,727' (TVD) / 10,743' (MD) - Gas

Morrison Formation = 10,928' (TVD) / 10,944' (MD) - Gas

Curtis Formation = 11,635' (TVD / 11,651' (MD)) - Gas

Entrada Sandstone = 11,683' (TVD) / 11,698' (MD) - Gas

Carmel = 11,951' (TVD) / 11,967' (MD)

Wingate Sandstone = 12,100' (TVD) / 12,116' (MD) – Gas

Chinle = 12,408' (TVD) / 12,116' (MD)

TD = 12,500' (TVD) / 12,516' (MD)

2. Wind River Resources' Minimum Specification for Pressure Control Equipment and Testing:

   A. 5,000 psi WP Double Gate Blowout Preventer with Annular Preventer (schematic diagram attached)

   B. BOPE will be pressure tested upon installation, whenever a seal subject to test pressure is broken or repairs are made; and at least once every 30 days. Chart recorders shall be used for all pressure tests.

      Ram-type preventers and related pressure control equipment will be pressure tested to the rated working pressure of the stack assembly if a test plug is used. If a test plug is not used, the stack assembly will be tested to the rated working pressure of the stack assembly or to 70% of the minimum internal yield pressure of the casing, whichever is less.

      Annular-type preventers will be pressure tested to 50% of rated working pressure.

   C. All casing strings will be pressure tested to 0.22 psi/ft or 1,500 psi, whichever is greater, prior to drilling plug after cementing. Test pressure not to exceed 70% of the internal yield pressure for the casing.

   D. Wind River Resources Corp. will comply with all requirements for well control specified in BLM Onshore Order #2.

3. Auxiliary Equipment:

   Kelly Cock – Yes

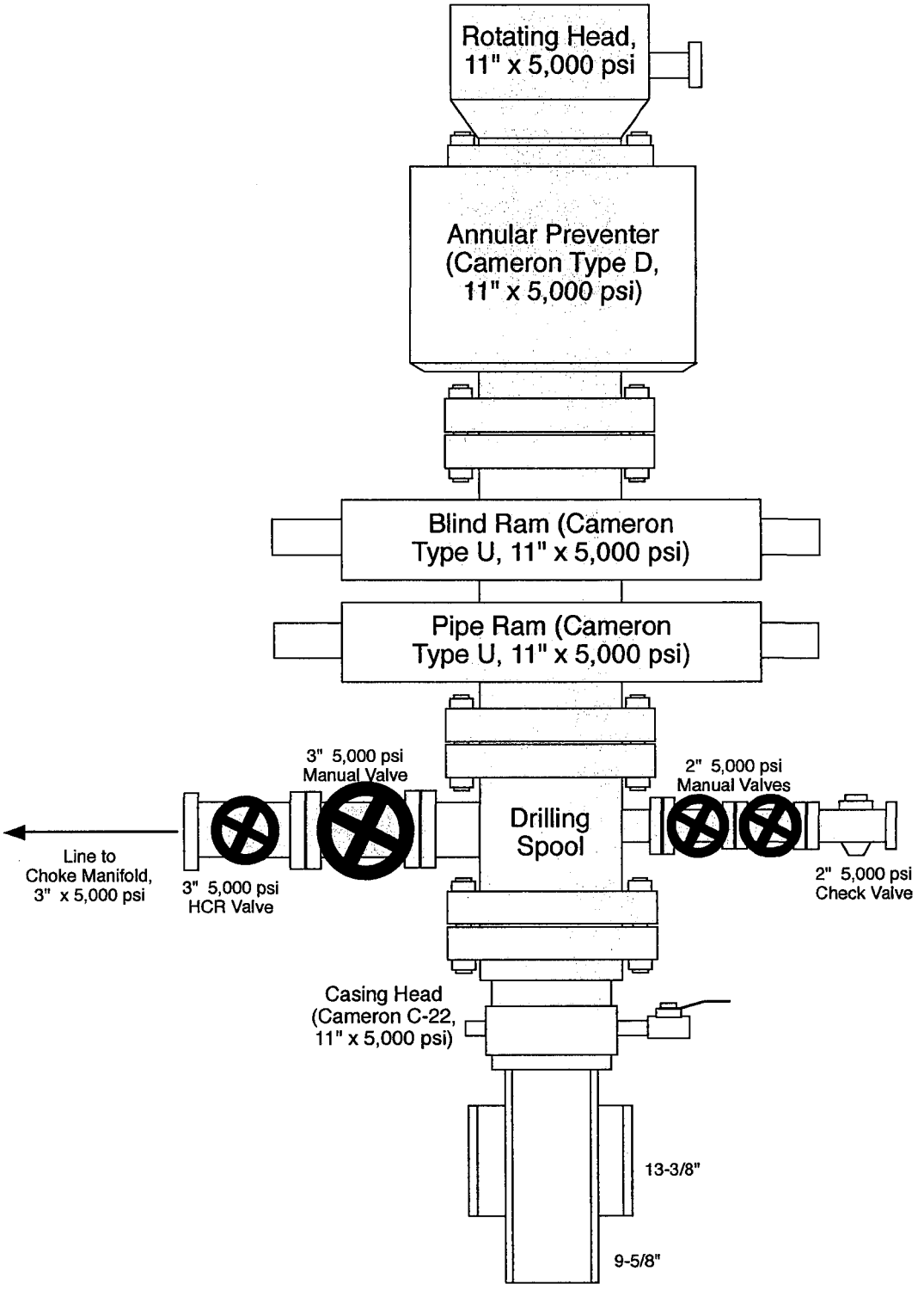
   Float Sub at Bit – No

   Mud Logger & Instrumentation– Yes

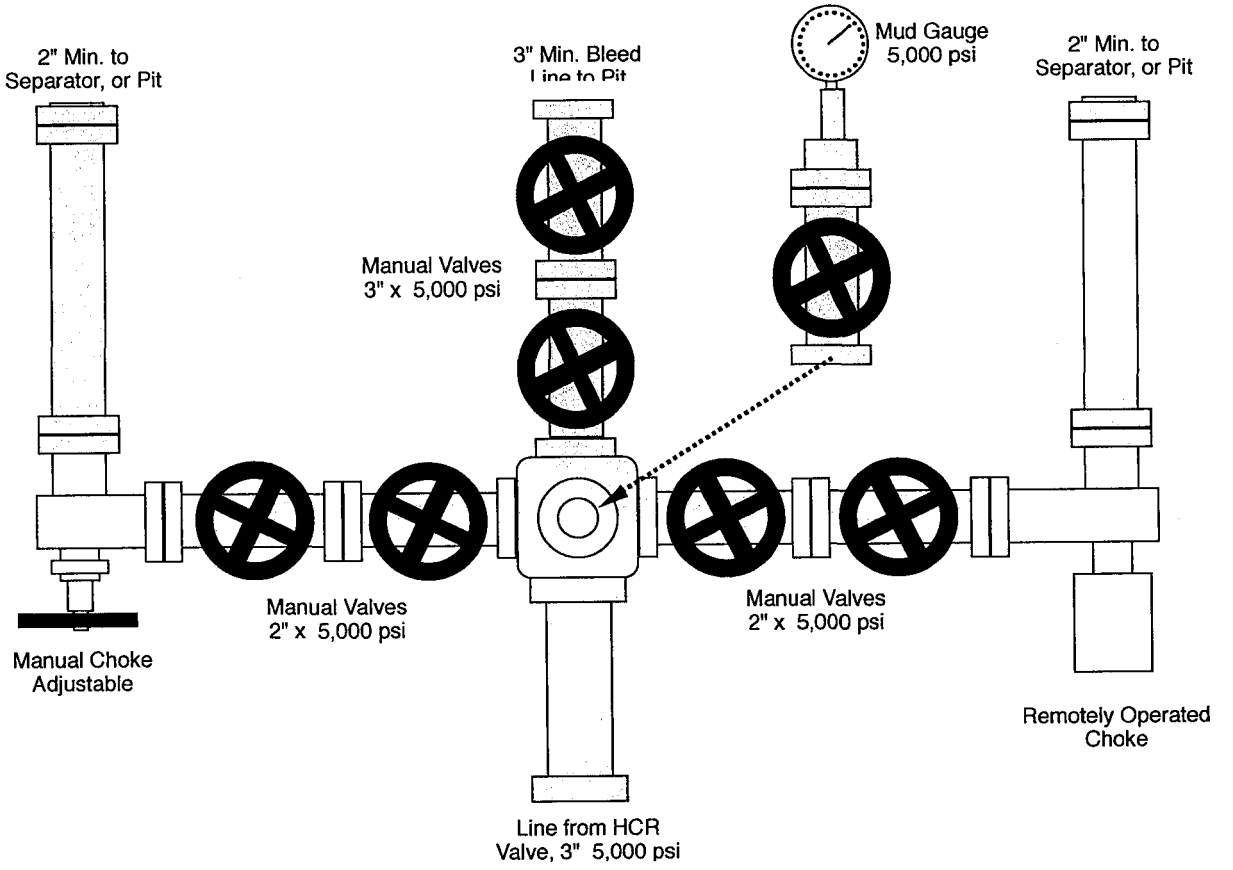
   Full-opening Safety Valve on Rig Floor – Yes

   Rotating Head – No

BOP Configuration for 5,000 psi Working Pressure



Choke Manifold Configuration for 5,000 psi Working Pressure



Testing Procedure:

1. BOP will be tested with a professional tester to conform to Onshore Order #2.

2. Blind and Pipe rams will be tested to rated working pressure, 5,000 psi.

3. Annular Preventer will be tested to 50% working pressure, 2,500 psi.

4. Casing will be tested to 0.22 psi/ft. or 1,500 psi. Not to exceed 70% of burst strength, whichever is greater.

5. All lines subject to well pressure will be tested to the same pressure as blind and pipe rams.

6. All BOPE specifications and configurations will meet Onshore Order #2 requirements.

4. Casing Program*:

	Setting Depth	Hole Size	Casing O.D.	Grade	Weight/Ft.
Conductor	40'	20"	16"	Contractor	0.250" wall
Surface	2,700'	12-1/4"	9-5/8"	K-55 ST&C	36# (new)
Production	0'-12,500'	7-7/8"	5-1/2"	N-80/HCP-110* LT&C	17# (new)

*Subject to review on the basis of actual conditions encountered. Production casing depth may be adjusted based on results.

5. Cement Program:

Conductor – 0-40'
Ready Mix to surface

Surface Casing – 0 – 2,400'
Lead: 380 sx HiFill w/ 0.125 lbm/sk Poly-E-Flake

Tail: 350 sx Premium AG 300 (Class G) w/ 2% CaCl & 0.125lbm/sk Poly-E-Flake
100% excess

Will top with cement down 1" pipe with 50 sx Premium Top Out Cement, if needed.

Cement Characteristics:

Lead
Yield = 3.12 cu ft per sk
Slurry Weight = 11.6 ppg
Compressive Strength = 500 psi (24 hrs @ 80 degrees F)

Tail
Yield = 1.17 cu ft per sk
Slurry Weight = 15.8 ppg
Compressive Strength = 3,000 psi (24 hrs @ 80 degrees F)

Production Casing – 0'- 12,000'

Lead: 500 sx 50:50 Pozmix w/ 5 lbm/sk Silicalite, 0.3% Diacel LWL, 20% SSA-1, 1.5% Zonesealant 2000, 0.1% Versaset, foamed to 9 ppg w/ nitrogen

Tail: 312sx 50:50 Pozmix w/ 5 lbm/sk Silicalite, 0.3% Diacel LWL, 20% SSA-1, 1.5% Zonesealant 2000, 0.1% Versaset, foamed to 11 ppg w/ nitrogen

Tail: 60 sx 50:50 Pozmix w/ 5 lbm/sk Silicalite, 0.3% Diacel LWL, 20% SSA-1, 1.5% Zonesealant 2000, 0.1% Versaset, not foamed

Shoe Slurry: 10 sx 50:50 Pozmix w/ 5 lbm/sk Silicalite, 0.3% Diacel LWL, 20% SSA-1, 1.5% Zonesealant 2000, 0.1% Versaset, not foamed

15% calculated excess, actual volumes to be based on caliper log and drilling experience

Cement Characteristics: Yield = 1.47 cu ft per sk
Slurry Weight (Lead-foamed =) 9.0 ppg
Slurry Weight (Tail-foamed) = 11.0 ppg
Slurry Weight (not foamed) = 14.3 ppg
Compressive Strength = 1,125 psi
(24 hrs @ 140 degrees F)
= 1,500 psi
(7 days @ 140 degrees F)

6. Testing, Logging, Coring:

A. Drill Stem Tests – none anticipated

B. Electric Logs – DIFL/SP/GR from TD to surface
SDL/CNL/CAL w/ DFIL from TD to 2,500'

C. Coring – Possible sidewall coring in the Dakota, Cedar Mountain, Morrison, Entrada & Wingate

7. Drilling Fluids:

Well will be drilled with a low solids non-dispersed mud. In the event of severe lost circulation, the mud may be aerated. Maximum mud weight used in Wind River's previous wells in this area was 9.4 ppg.

8. Abnormal Pressures and Hazards:

No abnormal pressures or hydrogen sulfide are anticipated based on drilling to similar depths in the Flat Rock Field, approximately 7.5 miles to the northwest. The Del-Rio/Orion 29-7A produced a 36-hour shut-in pressure of 3,100 psi and a calculated Entrada formation pore pressure of approximately 4,000 psi at 11,700'.

9. Directional Drilling

Well is to be drilled directionally due to topographic inaccessibility.

The well will be kicked off from 5,885' (MD) at an azimuth of 4.73 degrees with a build rate of 2 degrees per 100' until an inclination of 5.0 degrees is reached at approximately 6,135' (MD) in the Mesaverde. This well path will be maintained to 10,117' (MD) in the Mancos Shale. The hole will then be brought back to vertical, dropping inclination at the rate of 1 degree per 100' to a measured depth of 10,517' in the Dakota Silt. The well will then be drilled vertically to TD at a measured depth of 12,516' and a true vertical depth of 12,500'.

At TD the hole will be 175' FSL and 2,449' FWL IN SEC. 8-T15S-R20E.

Weatherford's directional drilling plan, designed on the basis of data from the 2006 North Hill Creek Extension 3D Seismic Survey, is attached.

SURFACE USE PLAN
WIND RIVER RESOURCES

NORTH HILL CREEK 14-8-15-20

1. Existing Roads:

   A. Topographic Map "A" shows the vicinity of the well, including a portion of the Agency Draw-Flat Rock Mesa Road. This road is reached from Ouray, Utah, by following the Seep Ridge Road south to Buck Canyon; taking the Buck Canyon Road west to the Willow Creek Road; then north on the Willow Creek Road to Santio Crossing, which is at the junction of the Willow Creek Road and the Agency Draw Road. The Agency Draw Rd. is followed to the Flat Rock Mesa Rd. and the Flat Rock Mesa Rd. is followed to the Towave/Weaver "Y". The access road to the well departs from the Weaver Rd. on the west side of the road a total distance of 53.6 miles from Ouray.

   B. Topographic Map "B" shows the proposed new access road departing the Weaver Rd. to the west and continuing 1.4 miles to the location.

   C. The access road will be plated with shale, which will be hauled from a pit located in Section 32-T13S-R21E, leased to the operator by SITLA. The shale road surface has proved very durable and the operator will apply a similar shale surface to the location and new access road.

2. Planned Access Road:

   Refer to Topographic Map "B".

   A. Length of new road will be approximately 1.4 miles and will depart from the Weaver Road in the NE/4 of Section 16-T15S-R20E.

   B. The right-of-way width is 30' (15' on either side of the centerline) with a 20-foot wide running surface.

C. Maximum grade will be less than 2%, as the road will be nearly flat from the Weaver Road to the location.

D. No turn-outs are planned

E. The new road will be crowned, ditched and dipped to provide adequate drainage.

F. Three 18" culverts will be installed to allow drainage of the relatively large flat area across the road.

G. Surface material will be shale native to the area or hauled in from the pit in Section 32-T13S-R21E, mentioned above.

H. No gates or cattleguards will be needed. Nor will any existing facilities be modified.

I. The proposed road was flagged when the location was staked.

J. The authorized officer will be contacted at least 24 hours in advance of commencement of construction of the access road and well pad.

3. Location of Existing Wells:

The nearest well is the operator's North Hill Creek 1-8-15-20, located approximately 5,700 feet northeast of the proposed surface location. Topographic map "C" shows that there are no existing wells within one mile of the proposed location.

4. Location of Existing and/or proposed Facilities:

There are no existing facilities on the proposed well pad. All proposed facilities will be contained within the proposed location site (see attached "Location Layout"). Topographic Map "D" shows the proposed route for a gas line, to be co-located in the access road right-of-way, and connecting to operator's R-O-W in Section 16.

The operator will submit information concerning proposed on and off well pad facilities once production has been established by applying for approval of subsequent operations.

5. Location and Type of Water Supply:

   A. The primary source of water for drilling and completion will be the operator's permitted water well in SWSE Sec. 3-T15S-R20E. Some produced water from existing wells may be used for drilling. Fresh water may also be taken at a point of diversion at Santio Crossing from Willow Creek in the SESE Section 29-T12S-R21E, SLB&M. This water will be taken under the terms of the Ute Oilfield Water Service's state filing.

   B. Water from the water well will be hauled by truck on the Weaver Road. Water from Santio Crossing would be transported by truck on the Agency Draw, Flat Rock Mesa and Weaver roads.

6. Source of Construction Materials:

   A. It is not anticipated that any construction materials will be needed for the drilling phase of this project. Gravel, shale or road base materials needed to upgrade access roads and well pad will be obtained from the operator's pit located on SITLA land near Chimney Rock.

   B. The entire well site and all access roads to be upgraded or built are located on lands held in trust by the federal government for the Ute Indian Tribe.

   C. All construction materials used in building the well pad and access road will be native material accumulated during construction. In the event that additional materials are needed, they will be obtained from the operator's existing pit on SITLA land or from private sources.

7. Methods for Handling Waste Disposal

   A. Drill cuttings will be buried in the reserve pit.

   Sewage waste will be contained in portable chemical toilets serviced by a commercial sanitary service.

   Garbage and trash will be contained in trash baskets and hauled to a sanitary landfill.

Salt and chemicals will be kept in proper containers and salvaged for future use or disposed of at an approved facility.

B. Drilling fluids will be contained in the reserve pit and mud tanks. To the extent possible, drilling fluids and water will be saved for future use. Unusable drilling fluids and water will be disposed of in an approved manner upon the completion of the well.

C. The reserve pit will be lined with 12-mil plastic nylon reinforced liner installed over sufficient bedding material to cover any exposed rocks.

The pit will be fenced on three sides with 39" net wire, topped with a minimum of one stand of barbed wire. All wire will be stretched prior to attachment to the corner posts. The fourth side will be fenced when drilling activities are completed to allow drying.

8. Ancillary Facilities:

No airstrips will be built. Mobile living quarters and office facilities for supervisors, geologists, mud engineer, mud loggers, directional drillers, and air compressor personnel will be confined to the drilling location as shown on the "Location Layout" diagram. Living quarters for the drill rig crew will be located at the operator's compressor station/storage yard in Section 3.

9. Well Site Layout:

A. Refer to attached "Typical Cross Section" diagram for cuts and fills and relation to topography

B. Refer to "Location Layout" diagram for location of mud tanks, reserve and flare pits, pipe racks, living facilities and top soil stockpiles.

C. Refer to "Location Layout" diagram for rig orientation and access road.

10. Plans for Restoration of the Surface:

A. Producing well location

i. Immediately upon well completion the location and surrounding area will be cleared of all unused tubing, equipment, debris, materials, trash and junk not required for production.

ii. Immediately upon well completion any hydrocarbons on the reserve pit will be removed and disposed of properly.

iii. The reserve pit and that portion of the location not needed for production facilities/operations will be re-contoured to the approximate natural contours. The reserve pit will be reclaimed within 90 days of the date of well completion, or as soon thereafter as is practical. Before any dirt work takes place, the reserve pit must be completely dry and all cans, barrels, pipe, etc, removed. The liner will be perforated and torn prior to backfilling.

iv. Access roads will be graded and maintained to prevent erosion and accommodate year-round traffic.

v. All disturbed areas not needed for operations will be seeded with the mixture required by the BIA in the manner specified by the BIA.

B. Dry Hole/Abandoned Location

At such time as it is determined that the well is to be plugged and abandoned, the operator will submit a subsequent report of abandonment to the BLM and the BIA. The BLM will attach plugging conditions of approval, and the BIA will attach conditions of approval for the restoration of the surface.

11. Surface Ownership:

Access roads and location are held in trust for the Ute Indian Tribe by the United States. The operator has obtained a right-of-way from the BIA and submitted payment for damages as specified in its Exploration and Development Agreement with the Ute Indian Tribe.

12. Additional Information:

A. The operator will inform all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator will immediately stop work that might further disturb such materials, and will inform the assigned monitor and the authorized officer (AO) at the BIA. Within five working days the AO will inform the operator as to:

- Whether the materials appear to be eligible for the National Register of Historic Places;

- The mitigation measures the operator will likely have to undertake before the site can be used (assuming in situ preservation is not necessary); and

- A time frame for the AO to complete an expedited review under 36 CFR 900.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that mitigation is appropriate.

  If the operator wishes at any time to relocate activities to avoid the cost of mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that required mitigation has been completed, the operator will be allowed to resume construction.

C. Less than 10,000 pounds of any chemical(s) on EPA's Consolidated List of Chemicals Subject to Reporting Under Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986, and less than threshold planning quantity (TPQ) of any extremely hazardous substance(s), as defined in 40 CFR, would be used, produced, transported, stored, disposed of, or associated with the proposed operation.

13. Lessee's or Operator's Representative and Certification:

Marc T. Eckels, Vice President
Wind River Resources Corporation
1245 East Brickyard Road, Suite 110
Salt Lake City, UT 84106
Office – 801-466-4131
Fax - 801-466-4132
Cell – 435-901-4217
Home – 435-649-9295

I hereby certify that I have inspected the proposed drill site and access road; that I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Wind River Resources Corporation, and its

contractors and subcontractors in conformity with the plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Please be advised that Wind River Resources Corporation is considered to be the operator of the North Hill Creek 14-8-15-20 well (Ute Tribal); surface location NENW Section 17-T15S-R20E; Lease Number 2OG0005577; Uintah County, Utah; and is responsible for the operations conducted upon the leased lands. Bond coverage is provided by Zions Bank SB-509795.

September 20, 2007
Date

Marc T. Eckels
Vice President

The onsite inspection for this well was conducted on 9-19-07.

Participants in the onsite inspection were:

Johanna Jack, Ute Indian Tribe EMRD
Joseph Chief Bear, BIA
Anna Figueroa, BLM
Marc Eckels, Wind River Resources Corp.
Jesse Hamilton, Nations Oil Field Service

Weatherford

Drilling Services

Proposal

WIND RIVER RESOURCES CORP.

NORTH HILL CREEK #14-8-15-20

UINTAH COUNTY, UTAH

WELL FILE: **PLAN 1**

SEPTEMBER 20, 2007

Weatherford International Ltd.
2690 Oil Drive
Casper, WY 82604
+1-307-265-1413 Main
+1-307-235-3958 Fax
www.weatherford.com

WIND RIVER RESOURCES CORP.

NORTH HILL CREEK #14-8-15-20
195' FNL, 2419' FWL
SECTION 17-T15S-R20E
UINTAH COUNTY, UT

SITE DETAILS

NORTH HILL CREEK #14-8-15-20
SECTION 17-T15S-R20E
195' FNL, 2419' FWL

Site Centre Latitude: 39°31'09.750N
Longitude: 109°42'09.061W

Ground Level: 7243.00
Positional Uncertainty: 0.00
Convergence: 1.15

FIELD DETAILS

UINTAH COUNTY, UTAH

Geodetic System: US State Plane Coordinate System 1927
Ellipsoid: NAD27 (Clarke 1866)
Zone: Utah, Central Zone
Magnetic Model: bggm2006

System Datum: Mean Sea Level
Local North: Grid North

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	4.73	0.00	0.00	0.00	0.00	0.00	0.00	
2	5885.00	0.00	4.73	5885.00	0.00	0.00	0.00	0.00	0.00	
3	6135.00	5.00	4.73	6134.68	10.86	0.90	2.00	4.73	10.90	
4	10016.73	5.00	4.73	10001.64	348.03	28.78	0.00	0.00	349.21	
5	10516.72	0.00	4.73	10501.00	369.75	30.58	1.00	180.00	371.02	
6	12515.72	0.00	4.73	12500.00	369.75	30.58	0.00	4.73	371.02	PBHL

WELL DETAILS

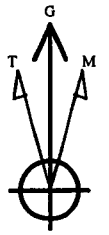
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
NORTH HILL CREEK 14-8-15-20	0.00	0.00	437082.69	2507036.49	39°31'09.750N	109°42'09.061W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	12500.00	369.75	30.58	437452.44	2507067.07	39°31'13.398N	109°42'08.576W	Circle (Radius: 100)

FORMATION TOP DETAILS

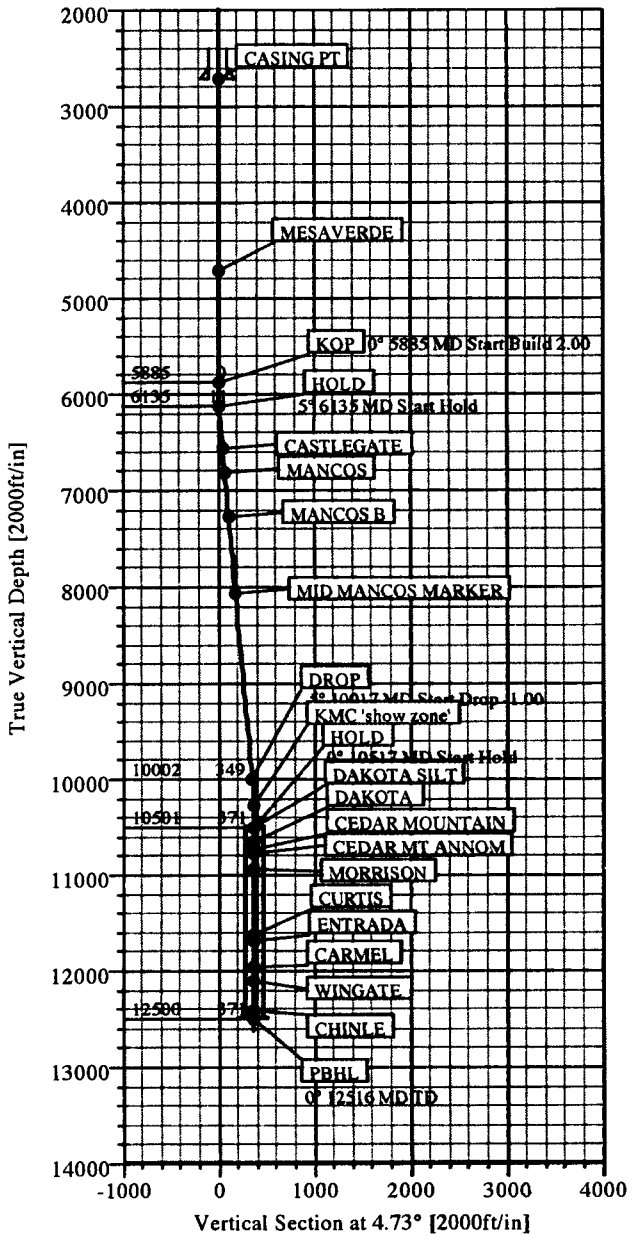
No.	TVDPath	MDPath	Formation
1	4699.00	4699.00	MESAVERDE
2	6563.00	6564.95	CASTLEGATE
3	6813.00	6815.91	MANCOS
4	7280.00	7284.69	MANCOS B
5	8060.00	8067.67	MID MANCOS MARKER
6	10278.00	10293.67	KMC 'show zone'
7	10501.00	10516.72	DAKOTA SILT
8	10646.00	10661.72	DAKOTA
9	10727.00	10742.72	CEDAR MOUNTAIN
10	10765.00	10780.72	CEDAR MT ANNOM
11	10928.00	10943.72	MORRISON
12	11635.00	11650.72	CURTIS
13	11683.00	11698.72	ENTRADA
14	11951.00	11966.72	CARMEL
15	12100.00	12115.72	WINGATE
16	12408.00	12423.72	CHINLE



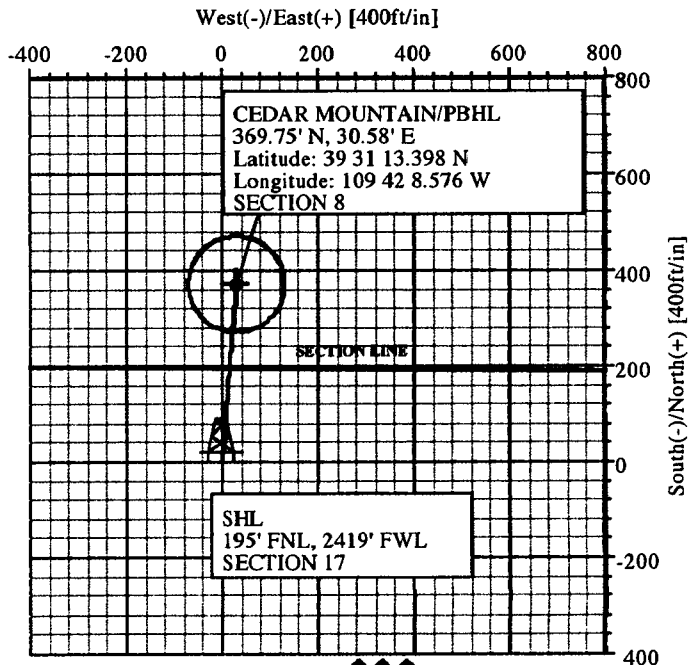
Azimuths to Grid North
True North: -1.15°
Magnetic North: 10.43°

Magnetic Field
Strength: 52453nT
Dip Angle: 65.55°
Date: 9/20/2007
Model: bggm2006

KB ELEVATION: 7260'
GR ELEVATION: 7243'



TOTAL CORRECTION TO TRUE NORTH 10.43°



Weatherford

Plan: Plan #1 (NORTH HILL CREEK 14-8-15-20/1)

Created By: ROBERT SCOTT Date: 9/20/2007

Weatherford International, Ltd.
PLAN REPORT

Company:	Wind River Resources Corp	**Date:** 9/20/2007	**Time:** 13:39:45	**Page:**	1
Field:	UINTAH COUNTY, UTAH	**Co-ordinate(NE) Reference:**	Well: NORTH HILL CREEK 14-8-15-20		
Site:	NORTH HILL CREEK #14-8-15-20	**Vertical (TVD) Reference:**	SITE 7260.0		
Well:	NORTH HILL CREEK 14-8-15-20	**Section (VS) Reference:**	Well (0.00N,0.00E,4.73Azi)		
Wellpath:	1	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Sybase

Field: UINTAH COUNTY, UTAH

Map System:	US State Plane Coordinate System 1927	**Map Zone:**	Utah, Central Zone
Geo Datum:	NAD27 (Clarke 1866)	**Coordinate System:**	Well Centre
Sys Datum:	Mean Sea Level	**Geomagnetic Model:**	bggm2006

Site: NORTH HILL CREEK #14-8-15-20
SECTION 17-T15S-R20E
195' FNL, 2419' FWL

Site Position:		**Northing:**	437082.69 ft	**Latitude:**	39	31	9.750	N
From:	Geographic	**Easting:**	2507036.49 ft	**Longitude:**	109	42	9.061	W
Position Uncertainty:	0.00 ft			**North Reference:**			Grid	
Ground Level:	7243.00 ft			**Grid Convergence:**			1.15	deg

Well: NORTH HILL CREEK 14-8-15-20 **Slot Name:**

Well Position:	+N/-S 0.00 ft	**Northing:**	437082.69 ft	**Latitude:**	39	31	9.750	N
	+E/-W 0.00 ft	**Easting :**	2507036.49 ft	**Longitude:**	109	42	9.061	W
Position Uncertainty:	0.00 ft							

Wellpath: 1

Drilled From:	Surface		
Tie-on Depth:	0.00 ft		
Current Datum:	SITE	**Height** 7260.00 ft	**Above System Datum:** Mean Sea Level
Magnetic Data:	9/20/2007		**Declination:** 11.58 deg
Field Strength:	52453 nT		**Mag Dip Angle:** 65.55 deg

Vertical Section:	Depth From (TVD) ft	+N/-S ft	+E/-W ft	Direction deg
	0.00	0.00	0.00	4.73

Plan:	Plan #1	**Date Composed:**	9/20/2007
		Version:	1
Principal:	Yes	**Tied-to:**	From Surface

Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	4.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5885.00	0.00	4.73	5885.00	0.00	0.00	0.00	0.00	0.00	0.00	
6135.00	5.00	4.73	6134.68	10.86	0.90	2.00	2.00	0.00	4.73	
10016.73	5.00	4.73	10001.64	348.03	28.78	0.00	0.00	0.00	0.00	
10516.72	0.00	4.73	10501.00	369.75	30.58	1.00	-1.00	0.00	180.00	
12515.72	0.00	4.73	12500.00	369.75	30.58	0.00	0.00	0.00	4.73	PBHL

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Comment
5885.00	0.00	4.73	5885.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP
5985.00	2.00	4.73	5984.98	1.74	0.14	1.75	2.00	2.00	0.00	
6085.00	4.00	4.73	6084.84	6.95	0.58	6.98	2.00	2.00	0.00	
6135.00	5.00	4.73	6134.68	10.86	0.90	10.90	2.00	2.00	0.00	HOLD
6185.00	5.00	4.73	6184.49	15.21	1.26	15.26	0.00	0.00	0.00	
6285.00	5.00	4.73	6284.11	23.89	1.98	23.97	0.00	0.00	0.00	
6385.00	5.00	4.73	6383.73	32.58	2.69	32.69	0.00	0.00	0.00	
6485.00	5.00	4.73	6483.35	41.26	3.41	41.41	0.00	0.00	0.00	
6564.95	5.00	4.73	6563.00	48.21	3.99	48.37	0.00	0.00	0.00	CASTLEGATE
6585.00	5.00	4.73	6582.97	49.95	4.13	50.12	0.00	0.00	0.00	
6685.00	5.00	4.73	6682.59	58.64	4.85	58.84	0.00	0.00	0.00	
6785.00	5.00	4.73	6782.21	67.32	5.57	67.55	0.00	0.00	0.00	
6815.91	5.00	4.73	6813.00	70.01	5.79	70.25	0.00	0.00	0.00	MANCOS
6885.00	5.00	4.73	6881.83	76.01	6.29	76.27	0.00	0.00	0.00	
6985.00	5.00	4.73	6981.45	84.69	7.00	84.98	0.00	0.00	0.00	

Weatherford International, Ltd.
PLAN REPORT

Company:	Wind River Resources Corp	**Date:** 9/20/2007	**Time:** 13:39:45	**Page:**	2
Field:	UINTAH COUNTY, UTAH	**Co-ordinate(NE) Reference:**	Well: NORTH HILL CREEK 14-8-15-20		
Site:	NORTH HILL CREEK #14-8-15-20	**Vertical (TVD) Reference:**	SITE 7260.0		
Well:	NORTH HILL CREEK 14-8-15-20	**Section (VS) Reference:**	Well (0.00N,0.00E,4.73Azi)		
Wellpath:	1	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Comment
7085.00	5.00	4.73	7081.07	93.38	7.72	93.70	0.00	0.00	0.00	
7185.00	5.00	4.73	7180.69	102.07	8.44	102.41	0.00	0.00	0.00	
7284.69	5.00	4.73	7280.00	110.72	9.16	111.10	0.00	0.00	0.00	MANCOS B
7285.00	5.00	4.73	7280.31	110.75	9.16	111.13	0.00	0.00	0.00	
7385.00	5.00	4.73	7379.93	119.44	9.88	119.85	0.00	0.00	0.00	
7485.00	5.00	4.73	7479.55	128.12	10.60	128.56	0.00	0.00	0.00	
7585.00	5.00	4.73	7579.17	136.81	11.31	137.28	0.00	0.00	0.00	
7685.00	5.00	4.73	7678.78	145.50	12.03	145.99	0.00	0.00	0.00	
7785.00	5.00	4.73	7778.40	154.18	12.75	154.71	0.00	0.00	0.00	
7885.00	5.00	4.73	7878.02	162.87	13.47	163.42	0.00	0.00	0.00	
7985.00	5.00	4.73	7977.64	171.55	14.19	172.14	0.00	0.00	0.00	
8067.67	5.00	4.73	8060.00	178.73	14.78	179.34	0.00	0.00	0.00	MID MANCOS MARKER
8085.00	5.00	4.73	8077.26	180.24	14.91	180.85	0.00	0.00	0.00	
8185.00	5.00	4.73	8176.88	188.92	15.63	189.57	0.00	0.00	0.00	
8285.00	5.00	4.73	8276.50	197.61	16.34	198.29	0.00	0.00	0.00	
8385.00	5.00	4.73	8376.12	206.30	17.06	207.00	0.00	0.00	0.00	
8485.00	5.00	4.73	8475.74	214.98	17.78	215.72	0.00	0.00	0.00	
8585.00	5.00	4.73	8575.36	223.67	18.50	224.43	0.00	0.00	0.00	
8685.00	5.00	4.73	8674.98	232.35	19.22	233.15	0.00	0.00	0.00	
8785.00	5.00	4.73	8774.60	241.04	19.94	241.86	0.00	0.00	0.00	
8885.00	5.00	4.73	8874.22	249.73	20.65	250.58	0.00	0.00	0.00	
8985.00	5.00	4.73	8973.84	258.41	21.37	259.29	0.00	0.00	0.00	
9085.00	5.00	4.73	9073.46	267.10	22.09	268.01	0.00	0.00	0.00	
9185.00	5.00	4.73	9173.08	275.78	22.81	276.72	0.00	0.00	0.00	
9285.00	5.00	4.73	9272.70	284.47	23.53	285.44	0.00	0.00	0.00	
9385.00	5.00	4.73	9372.32	293.15	24.25	294.16	0.00	0.00	0.00	
9485.00	5.00	4.73	9471.94	301.84	24.96	302.87	0.00	0.00	0.00	
9585.00	5.00	4.73	9571.55	310.53	25.68	311.59	0.00	0.00	0.00	
9685.00	5.00	4.73	9671.17	319.21	26.40	320.30	0.00	0.00	0.00	
9785.00	5.00	4.73	9770.79	327.90	27.12	329.02	0.00	0.00	0.00	
9885.00	5.00	4.73	9870.41	336.58	27.84	337.73	0.00	0.00	0.00	
9985.00	5.00	4.73	9970.03	345.27	28.56	346.45	0.00	0.00	0.00	
10016.73	5.00	4.73	10001.64	348.03	28.78	349.21	0.00	0.00	0.00	DROP
10085.00	4.32	4.73	10069.69	353.55	29.24	354.76	1.00	-1.00	0.00	
10185.00	3.32	4.73	10169.46	360.19	29.79	361.42	1.00	-1.00	0.00	
10285.00	2.32	4.73	10269.34	365.08	30.19	366.33	1.00	-1.00	0.00	
10293.67	2.23	4.73	10278.00	365.43	30.22	366.68	1.00	-1.00	0.00	KMC 'show zone'
10385.00	1.32	4.73	10369.29	368.25	30.46	369.50	1.00	-1.00	0.00	
10485.00	0.32	4.73	10469.28	369.67	30.57	370.93	1.00	-1.00	0.00	
10516.72	0.00	4.73	10501.00	369.75	30.58	371.02	1.00	-1.00	0.00	DAKOTA SILT
10585.00	0.00	4.73	10569.28	369.75	30.58	371.02	0.00	0.00	0.00	
10661.72	0.00	4.73	10646.00	369.75	30.58	371.02	0.00	0.00	0.00	DAKOTA
10685.00	0.00	4.73	10669.28	369.75	30.58	371.02	0.00	0.00	0.00	
10742.72	0.00	4.73	10727.00	369.75	30.58	371.02	0.00	0.00	0.00	CEDAR MOUNTAIN
10780.72	0.00	4.73	10765.00	369.75	30.58	371.02	0.00	0.00	0.00	CEDAR MT ANNOM
10785.00	0.00	4.73	10769.28	369.75	30.58	371.02	0.00	0.00	0.00	
10885.00	0.00	4.73	10869.28	369.75	30.58	371.02	0.00	0.00	0.00	
10943.72	0.00	4.73	10928.00	369.75	30.58	371.02	0.00	0.00	0.00	MORRISON
10985.00	0.00	4.73	10969.28	369.75	30.58	371.02	0.00	0.00	0.00	
11085.00	0.00	4.73	11069.28	369.75	30.58	371.02	0.00	0.00	0.00	
11185.00	0.00	4.73	11169.28	369.75	30.58	371.02	0.00	0.00	0.00	
11285.00	0.00	4.73	11269.28	369.75	30.58	371.02	0.00	0.00	0.00	
11385.00	0.00	4.73	11369.28	369.75	30.58	371.02	0.00	0.00	0.00	

Weatherford International, Ltd.
PLAN REPORT

Company:	Wind River Resources Corp	**Date:** 9/20/2007 **Time:** 13:39:45	**Page:** 3
Field:	UINTAH COUNTY, UTAH	**Co-ordinate(NE) Reference:**	Well: NORTH HILL CREEK 14-8-15-20
Site:	NORTH HILL CREEK #14-8-15-20	**Vertical (TVD) Reference:**	SITE 7260.0
Well:	NORTH HILL CREEK 14-8-15-20	**Section (VS) Reference:**	Well (0.00N,0.00E,4.73Azi)
Wellpath:	1	**Survey Calculation Method:**	Minimum Curvature **Db:** Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Comment
11485.00	0.00	4.73	11469.28	369.75	30.58	371.02	0.00	0.00	0.00	
11585.00	0.00	4.73	11569.28	369.75	30.58	371.02	0.00	0.00	0.00	
11650.72	0.00	4.73	11635.00	369.75	30.58	371.02	0.00	0.00	0.00	CURTIS
11685.00	0.00	4.73	11669.28	369.75	30.58	371.02	0.00	0.00	0.00	
11698.72	0.00	4.73	11683.00	369.75	30.58	371.02	0.00	0.00	0.00	ENTRADA
11785.00	0.00	4.73	11769.28	369.75	30.58	371.02	0.00	0.00	0.00	
11885.00	0.00	4.73	11869.28	369.75	30.58	371.02	0.00	0.00	0.00	
11966.72	0.00	4.73	11951.00	369.75	30.58	371.02	0.00	0.00	0.00	CARMEL
11985.00	0.00	4.73	11969.28	369.75	30.58	371.02	0.00	0.00	0.00	
12085.00	0.00	4.73	12069.28	369.75	30.58	371.02	0.00	0.00	0.00	
12115.72	0.00	4.73	12100.00	369.75	30.58	371.02	0.00	0.00	0.00	WINGATE
12185.00	0.00	4.73	12169.28	369.75	30.58	371.02	0.00	0.00	0.00	
12285.00	0.00	4.73	12269.28	369.75	30.58	371.02	0.00	0.00	0.00	
12385.00	0.00	4.73	12369.28	369.75	30.58	371.02	0.00	0.00	0.00	
12423.72	0.00	4.73	12408.00	369.75	30.58	371.02	0.00	0.00	0.00	CHINLE
12485.00	0.00	4.73	12469.28	369.75	30.58	371.02	0.00	0.00	0.00	
12515.72	0.00	4.73	12500.00	369.75	30.58	371.02	0.00	0.00	0.00	PBHL

Annotation

MD ft	TVD ft	
5885.00	5885.00	KOP
6135.00	6134.68	HOLD
10016.73	10001.64	DROP
10516.72	10501.00	HOLD
12515.72	0.00	PBHL

Targets

Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<---- Latitude ----> Deg Min Sec	<--- Longitude ---> Deg Min Sec
PBHL			12500.00	369.75	30.58	437452.44	2507067.07	39 31 13.398 N	109 42 8.576 W
-Circle (Radius: 100)									
-Plan hit target									

WIND RIVER RESOURCES CORP.

NORTH HILL CREEK #14-8-15-20

LOCATED IN UINTAH COUNTY, UTAH
SECTION 17, T15S, R20E, S.L.B.&M.

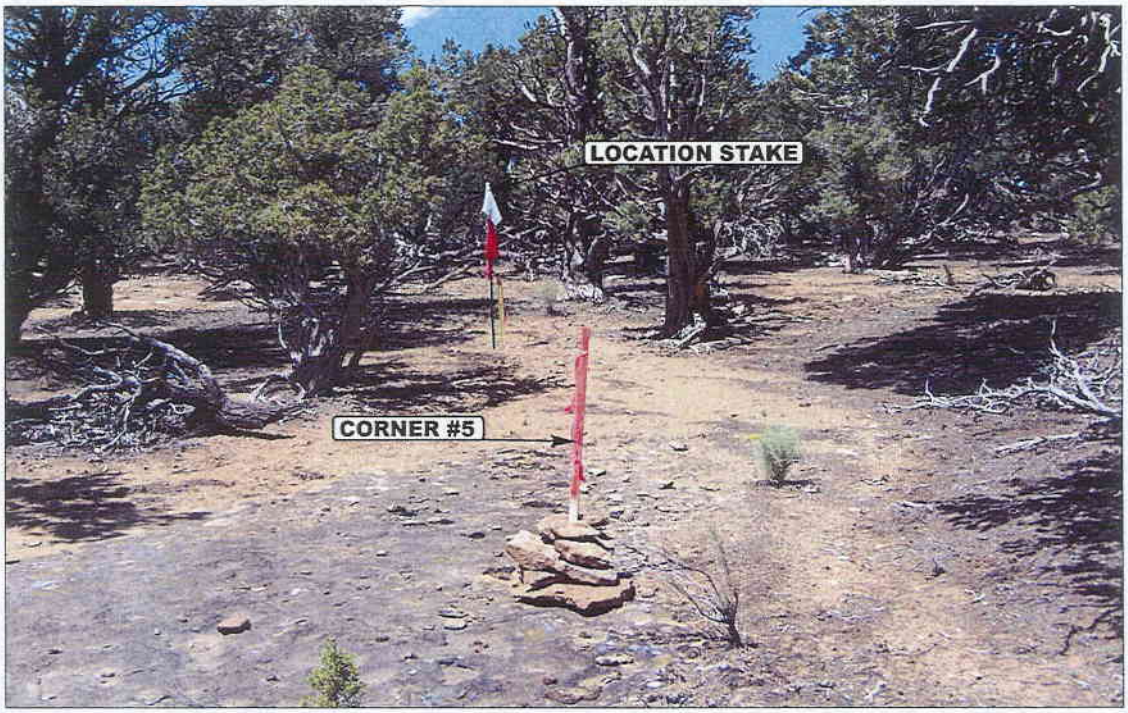


PHOTO: VIEW OF LOCATION STAKES **CAMERA ANGLE: NORTHWESTERLY**

PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS **CAMERA ANGLE: NORTHWESTERLY**

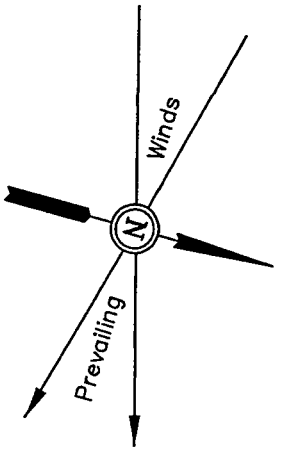
- Since 1964 -
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com

LOCATION PHOTOS	08 MONTH	13 DAY	07 YEAR	PHOTO
TAKEN BY: S.H.	DRAWN BY: C.P.	REVISED: 00-00-00		

WIND RIVER RESOURCES CORP.

LOCATION LAYOUT FOR

NORTH HILL CREEK #14-8-15-20
SECTION 17, T15S, R20E, S.L.B.&M.
195' FNL 2419' FWL



SCALE: 1" = 50'
DATE: 08-15-07
Drawn By: C.H.

NOTE:
Flare Pit is to be located a min. of 100' from the Well Head.

F-2.9'
El. 39.4'

F-1.0'
El. 41.3'

Topsoil Stockpile

Sta. 3+60

Approx. Toe of Fill Slope

F-2.7'
El. 39.6'

Round Corners as needed

REGISTERED LAND SURVEYOR
No. 161319
ROBERT L. KAY
STATE OF UTAH

DATA

185'

160'

CATWALK

PIPE TUBS
PIPE TUBS
PIPE TUBS

PIPE RACKS

Flare Pit

F-0.6'
El. 41.7'

C-9.7'
El. 42.0'
(Btm.Pit)

C-0.6'
El. 42.9'

DOG HOUSE

80'

15'

34'

125'

Sta. 1+75

C-3.1'
El. 45.4'

GRADE
El. 42.3'

RIG

IRI 500 SERIES

WATER

GENERATORS

TRAILER

TOILET

Reserve Pit Backfill & Spoils Stockpile

10' WIDE BENCH

120'

RESERVE PITS
(10' Deep)
Total Pit Capacity W/2' of Freeboard = 8,400 Bbls. ±
Total Pit Volume = 2,330 Cu. Yds.
Sta. 0+85

1 1/2:1 Slope

SUCTION TANK

SHAKER TANK

MUD TANK 1

MUD TANK 2

BOILER

CHANGE HOUSE

HOPPER

FUEL

MUD VAN

Approx. Top of Cut Slope

C-14.1'
El. 46.4'
(Btm. Pit)

C-3.6'
El. 45.9'

175'

70'

C-6.0'
El. 48.3'

Sta. 0+00

C-6.5'
El. 48.8'

Proposed Access Road

C-6.4'
El. 48.7'

Elev. Ungraded Ground at Location Stake = 7542.9'

Elev. Graded Ground at Location Stake = 7242.3'

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

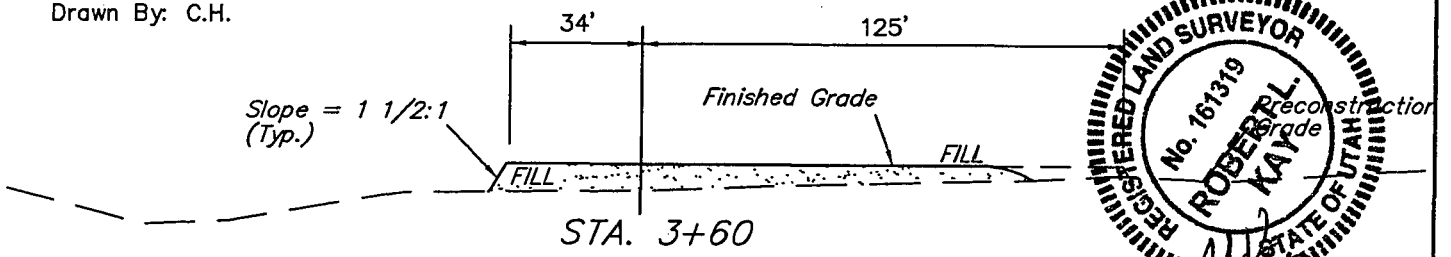
WIND RIVER RESOURCES CORP.

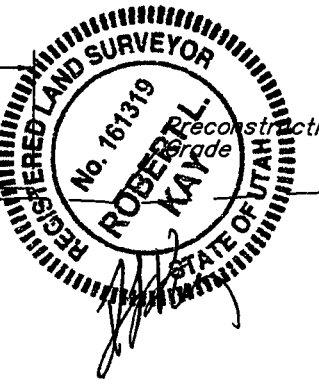
TYPICAL CROSS SECTIONS FOR

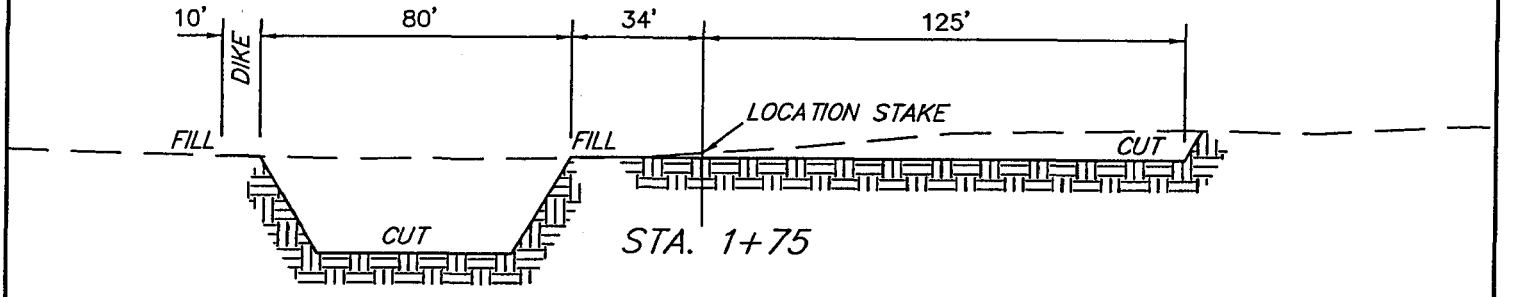
NORTH HILL CREEK #14-8-15-20
SECTION 17, T15S, R20E, S.L.B.&M.
195' FNL 2419' FWL

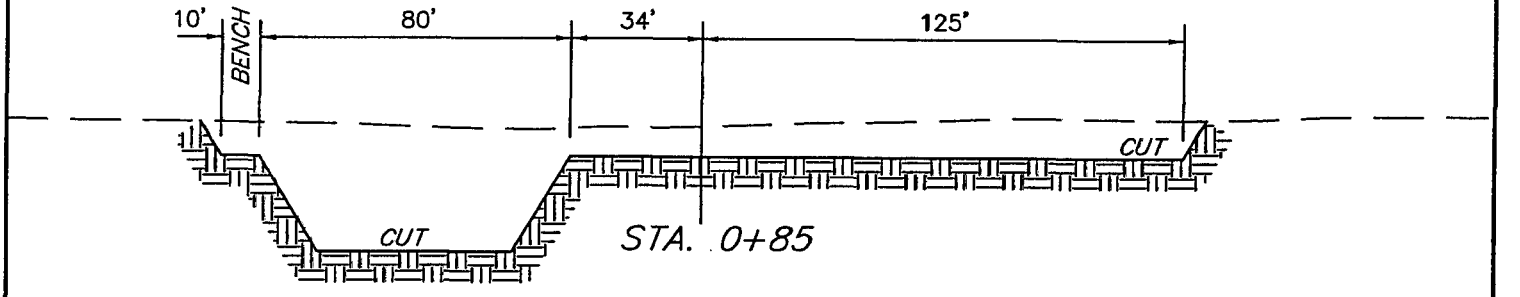
1" = 20'
X-Section Scale
1" = 50'

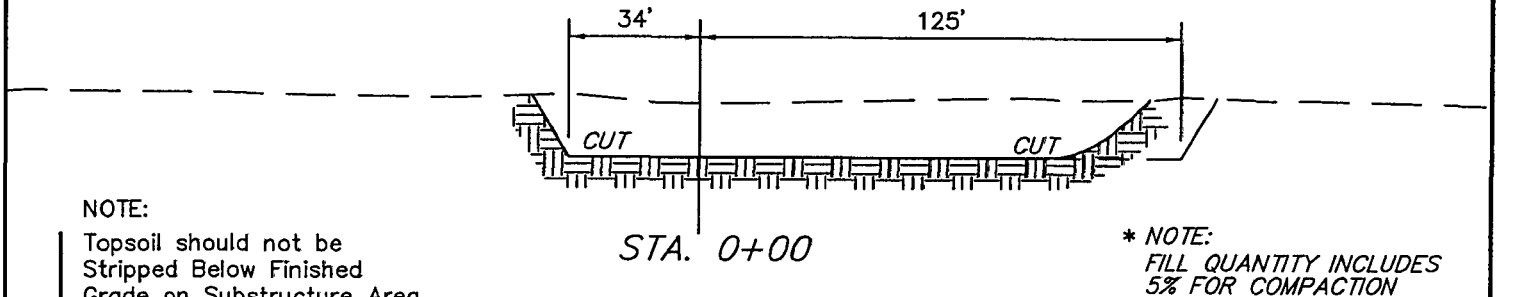
DATE: 08-15-07
Drawn By: C.H.











NOTE:
Topsoil should not be Stripped Below Finished Grade on Substructure Area.

* NOTE:
FILL QUANTITY INCLUDES 5% FOR COMPACTION

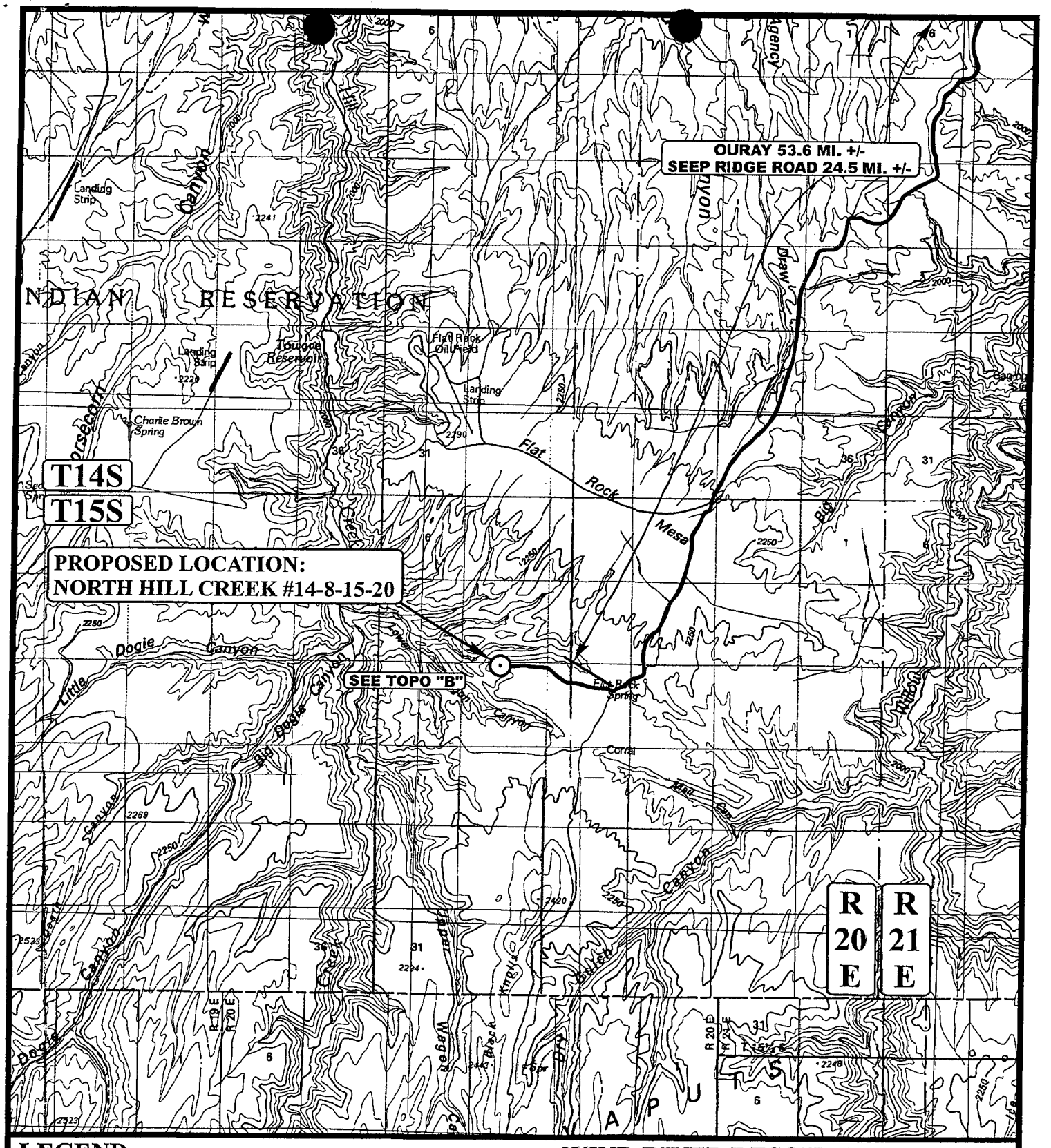
APPROXIMATE YARDAGES

CUT
(12") Topsoil Stripping = 2,840 Cu. Yds.
Remaining Location = 5,850 Cu. Yds.

TOTAL CUT = 8,690 CU.YDS.
FILL = 1,300 CU.YDS.

EXCESS MATERIAL = 7,390 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.) = 4,010 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation) = 3,380 Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017



LEGEND:

⊙ PROPOSED LOCATION

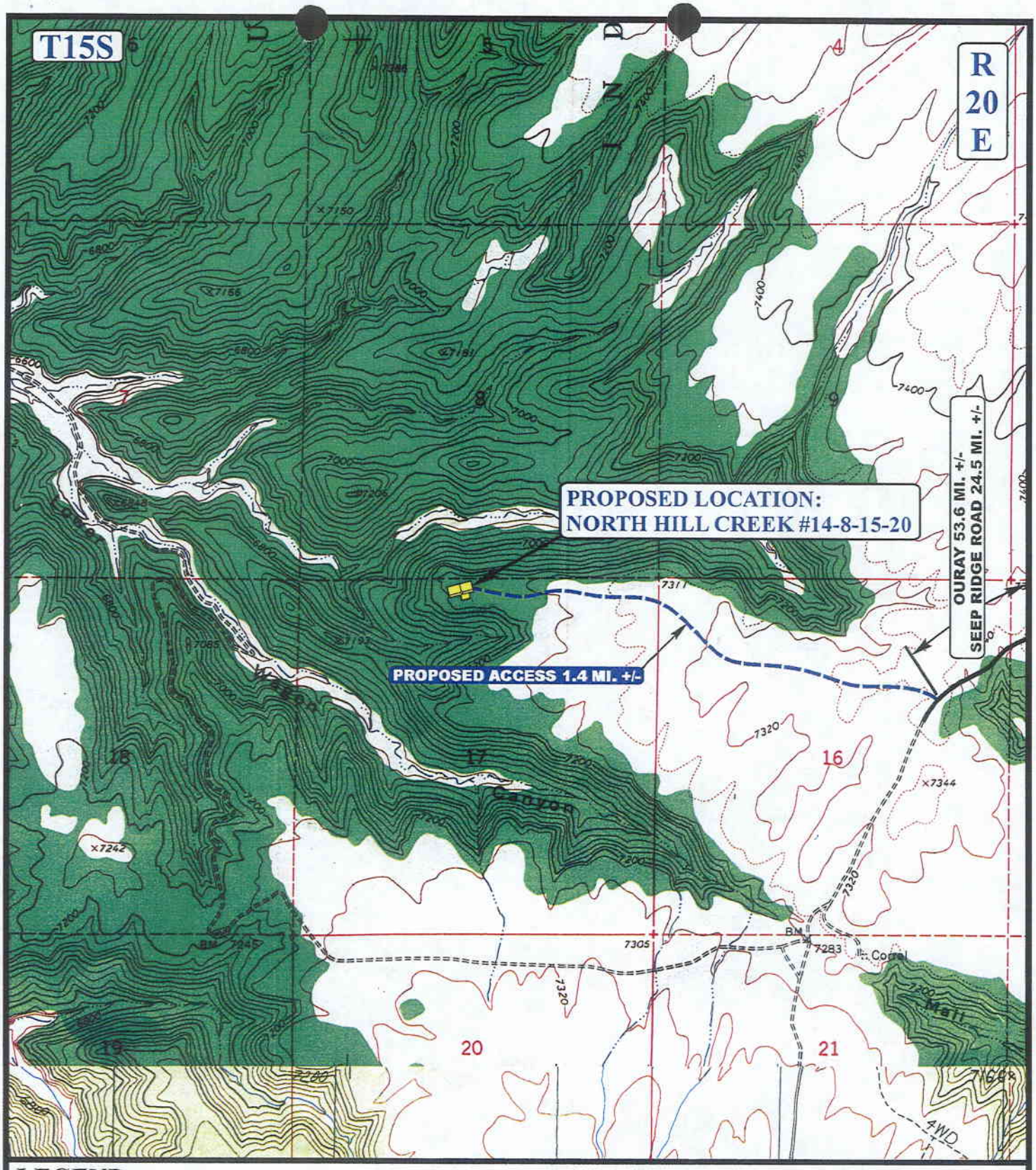
N

WIND RIVER RESOURCES CORP.

NORTH HILL CREEK #14-8-15-20
SECTION 17, T15S, R20E, S.L.B.&M.
195' FNL 2419' FWL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	08 MONTH	13 DAY	07 YEAR	A TOPO
SCALE: 1:100,000	DRAWN BY: C.P.	REVISED: 00-00-00		



LEGEND:

EXISTING ROAD

PROPOSED ACCESS ROAD

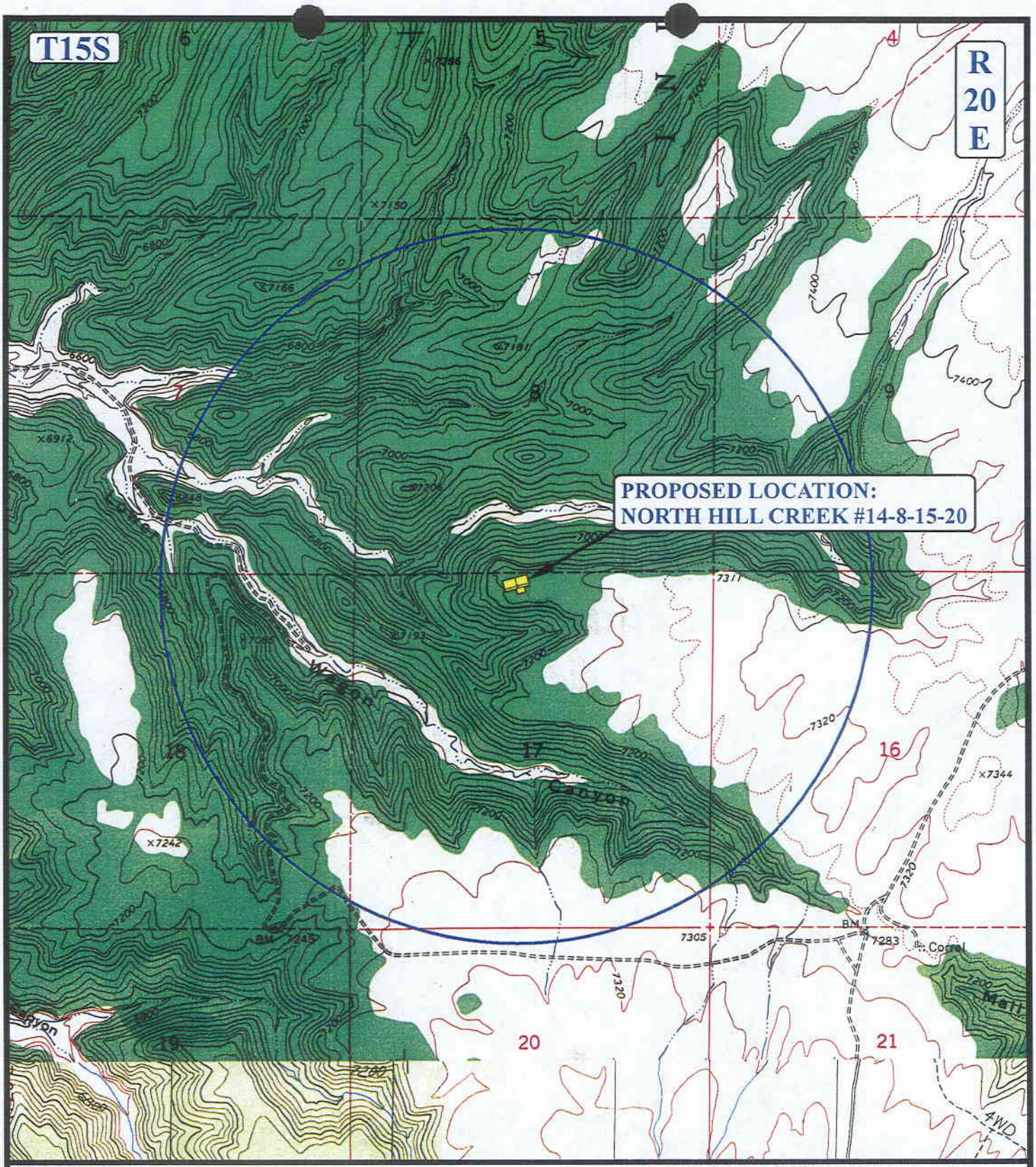
N

WIND RIVER RESOURCES CORP.

NORTH HILL CREEK #14-8-15-20
SECTION 17, T15S, R20E, S.L.B.&M.
195' FNL 2419' FWL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	08 MONTH	13 DAY	07 YEAR	B TOPO
SCALE: 1" = 2000'	DRAWN BY: C.P.	REVISED: 00-00-00		



LEGEND:

- DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED

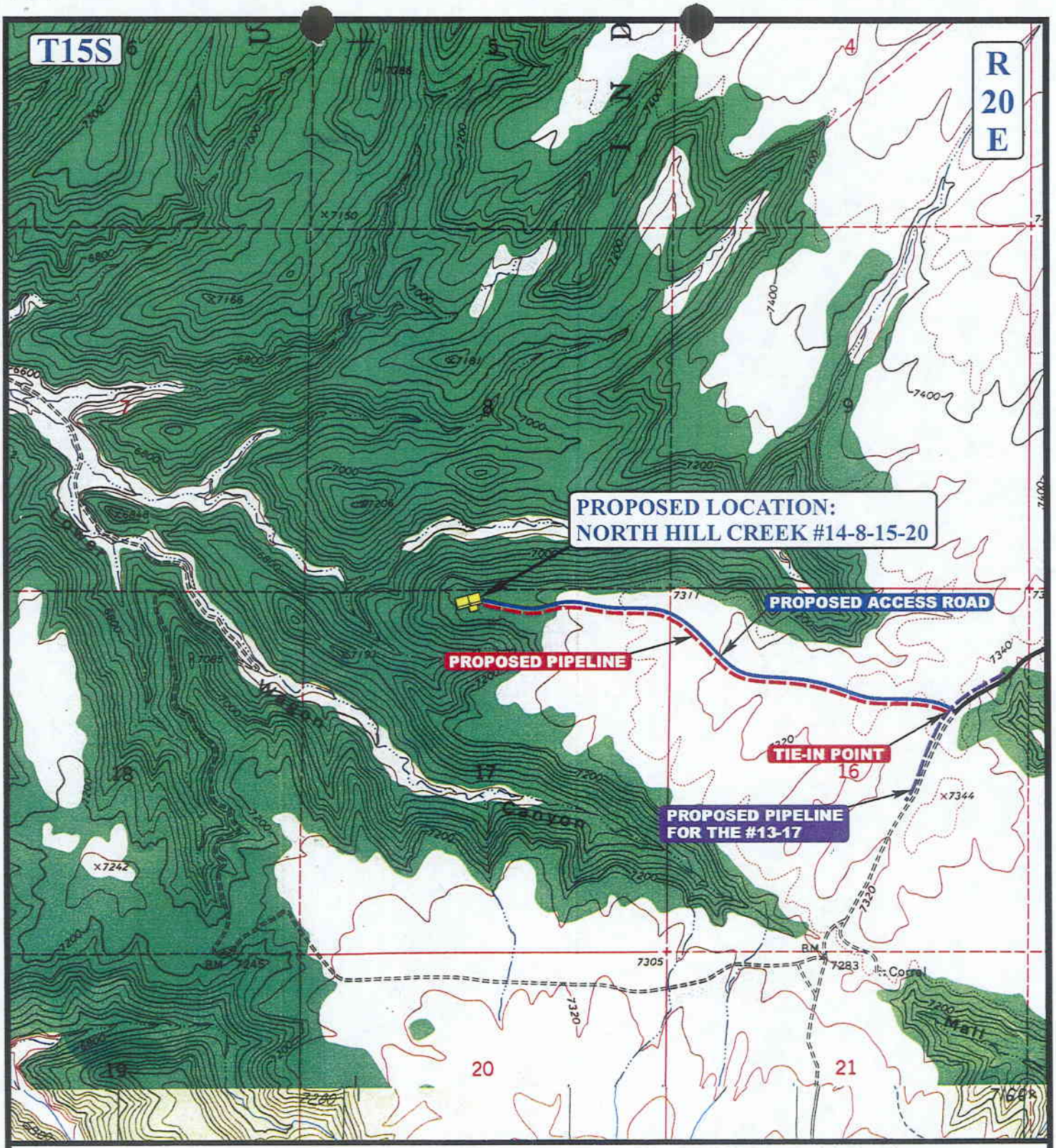
N

WIND RIVER RESOURCES CORP.

NORTH HILL CREEK #14-8-15-20
SECTION 17, T15S, R20E, S.L.B.&M.
195' FNL 2419' FWL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	08 MONTH	13 DAY	07 YEAR	C TOPO
SCALE: 1" = 2000'	DRAWN BY: C.P.	REVISED: 00-00-00		



APPROXIMATE TOTAL PIPELINE DISTANCE = 7,405' +/-

LEGEND:

PROPOSED ACCESS ROAD

PROPOSED PIPELINE

PROPOSED PIPELINE (SERVICING OTHER WELLS)

N

WIND RIVER RESOURCES CORP.

NORTH HILL CREEK #14-8-15-20
SECTION 17, T15S, R20E, S.L.B.&M.
195' FNL 2419' FWL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	08 MONTH	13 DAY	07 YEAR	D TOPO
SCALE: 1" = 2000'	DRAWN BY: C.P.	REVISED: 00-00-00		

WORKSHEET

APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 09/24/2007

API NO. ASSIGNED: 43-047-39646

WELL NAME: NHC 14-8-15-20

OPERATOR: WIND RIVER RESOURCES (N1850)

PHONE NUMBER: 435-466-4131

CONTACT: MARC ECKELS

PROPOSED LOCATION:

NENW 17 150S 200E

SURFACE: 0195 FNL 2419 FWL

BOTTOM: 0175 FSL 2449 FWL

Sec 8 SESW

COUNTY: UINTAH

LATITUDE: 39.51933 LONGITUDE: -109.7025

UTM SURF EASTINGS: 611531 NORTHINGS: 4375005

FIELD NAME: WILDCAT (1)

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 2 - Indian

LEASE NUMBER: 20G0005577

PROPOSED FORMATION: WINGT

SURFACE OWNER: 2 - Indian

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

✓ Plat

✓ Bond: Fed[] Ind[2] Sta[] Fee[]
(No. SB-509795)

N Potash (Y/N)

Al Oil Shale 190-5 (B) or 190-3 or 190-13

✓ Water Permit
(No. UTE)

N RDCC Review (Y/N)
(Date:)

N/A Fee Surf Agreement (Y/N)

N/A Intent to Commingle (Y/N)

LOCATION AND SITING:

___ R649-2-3.

Unit: ___

___ R649-3-2. General
Siting: 460 From Qtr/Qtr & 920' Between Wells

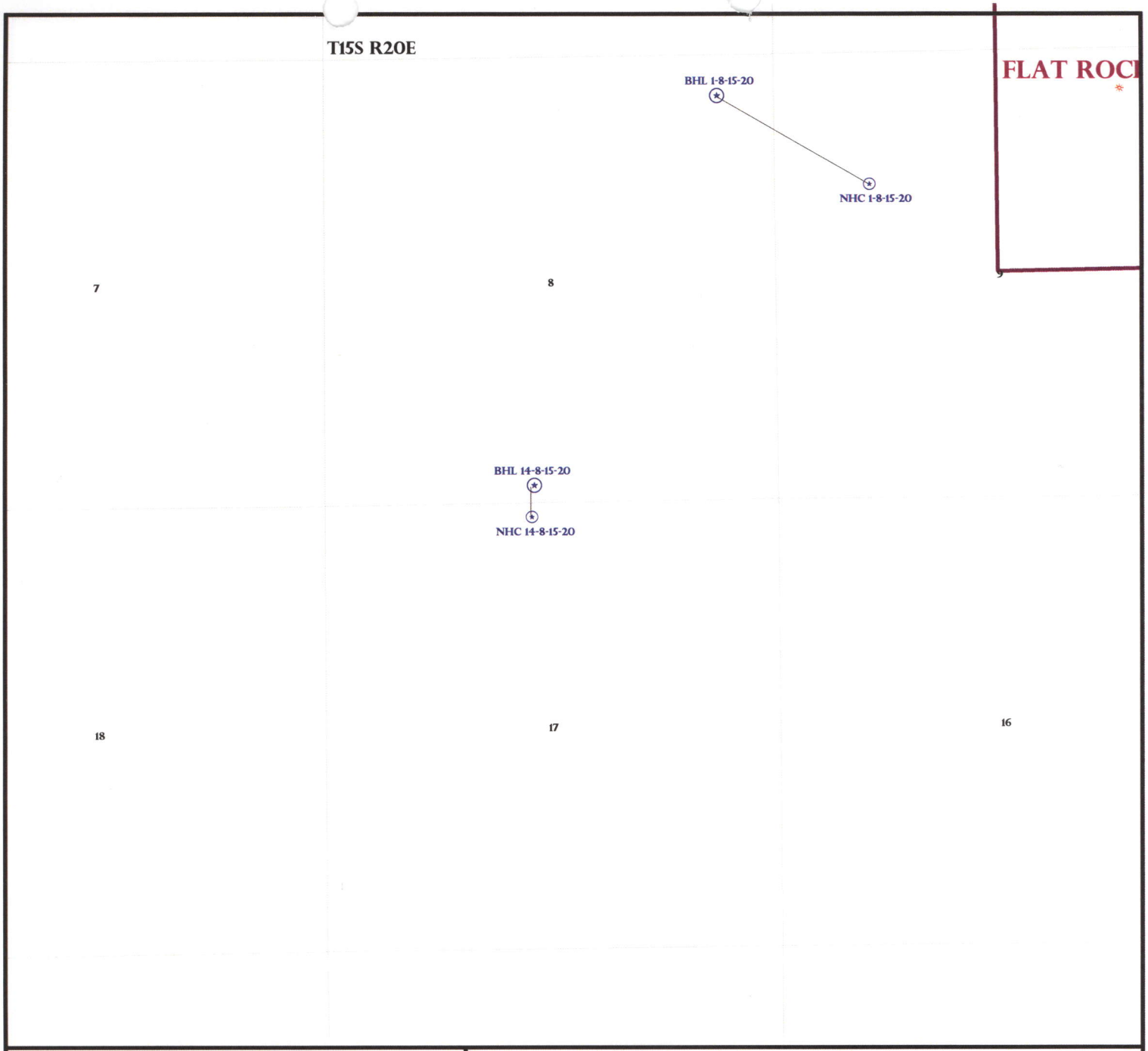
___ R649-3-3. Exception

___ Drilling Unit
Board Cause No: ___
Eff Date: ___
Siting: ___

✓ R649-3-11. Directional Drill

COMMENTS: ___

STIPULATIONS: 1- Federal Approval
2- Spacing Slip



OPERATOR: WIND RIVER RES CORP (N1850)

SEC: 17 T.15S R. 20E

FIELD: WILDCAT (001)

COUNTY: UINTAH

SPACING: R649-3-11 / DIRECTIONAL DRILLING

Field Status
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED

Unit Status
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PENDING
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Wells Status
- GAS INJECTION
- GAS STORAGE
- LOCATION ABANDONED
- NEW LOCATION
- PLUGGED & ABANDONED
- PRODUCING GAS
- PRODUCING OIL
- SHUT-IN GAS
- SHUT-IN OIL
- TEMP. ABANDONED
- TEST WELL
- WATER INJECTION
- WATER SUPPLY
- WATER DISPOSAL
- DRILLING

UTAH DNR
OIL, GAS & MINING

N
W E
S

PREPARED BY: DIANA MASON
DATE: 26-SEPTEMBER-2007

WIND RIVER RESOURCES CORPORATION
1245 E Brickyard Road
Brickyard Tower, Suite 110
Salt Lake City, Utah 84106
Telephone: (801) 466-4131
Facsimile: (801) 466-4132
Email: utah@windrivercompanies.com

Marc T. Eckels, Vice President

September 21, 2007

Diana Mason, Petroleum Technician
Utah Division of Oil, Gas & Mining
P. O. Box 145801
Salt Lake City, UT 84114-5801

RE: Application for Directional Drilling
North Hill Creek 14-8-15-20
Surface Location: 195' FNL & 2,419' fwl (NENW) Sec. 17-T15S-R20E
Bottom Hole Location: 175' FSL & 2,449' FWL (SESW) Sec. 8-T15S-R20E
Uintah County

Dear Ms. Mason:

Wind River Resources Corporation hereby requests permission to drill the North Hill Creek 14-8-15-20 directionally from the surface location in the NENW of Section 17 to a bottom hole location in the SESW of Section 8. Wind River has under lease from the Ute Indian Tribe all lands within 460' in any direction of the surface and bottom hole locations, and at every point along the proposed well path.

This is a wildcat exploratory well being drilled to test multiple anomalies identified on our 2006 North Hill Creek Extension 3D seismic survey. We anticipate potential for natural gas production from the Mesaverde, Castlegate, Mancos, Dakota, Cedar Mountain, Entrada and Wingate formations. The well must be drilled directionally to test these targets due to topographic considerations. A complete directional survey will be run in this well at the time of logging and filed with the well completion report.

Please attach this application to the APD for this well, which includes the necessary plat, topographic maps and formation tops.

Sincerely,

Marc T. Eckels
Vice President

JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil Gas and Mining

JOHN R. BAZA
Division Director

September 27, 2007

Wind River Resources Corporation
1245 E Brickyard Rd., Ste. 110
Salt Lake City, UT 84106

Re: North Hill Creek 14-8-15-20 Well, Surface Location 195' FNL, 2419' FWL, NE NW, Sec. 17, T. 15 South, R. 20 East, Bottom Location 175' FSL, 2449' FWL, SE SW, Sec. 8, T. 15 South, R. 20 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann.§ 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-39646.

Sincerely,

Gil Hunt
Associate Director

pab
Enclosures

cc: Uintah County Assessor
Bureau of Land Management, Vernal Office

Operator: Wind River Resources Corporation

Well Name & Number North Hill Creek 14-8-15-20

API Number: 43-047-39646

Lease: 2OG0005577

Surface Location:	NE NW	**Sec.** 17	**T.** 15 South	**R.** 20 East
Bottom Location:	SE SW	**Sec.** 8	**T.** 15 South	**R.** 20 East

Conditions of Approval

1. **General**

   Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. **Notification Requirements**

   Notify the Division within 24 hours of spudding the well.

   - Contact Carol Daniels at (801) 538-5284

   Notify the Division prior to commencing operations to plug and abandon the well.

   - Contact Dustin Doucet at (801) 538-5281 (801) 733-0983 home

3. **Reporting Requirements**

   All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

5. In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

6. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

RECEIVED

SEP 21 2007

Form 3160-3
(August 1999)

FORM APPROVED
OMB No. 1004-0136
Expires November 30, 2000

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.: 20G0005577

6. If Indian, Allottee or Tribe Name: Ute Indian Tribe

1a. Type of Work: ☒ DRILL ☐ REENTER

7. If Unit or CA Agreement, Name and No.: N/A

1b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other ☐ Single Zone ☒ Multiple Zone

8. Lease Name and Well No.: North Hill Creek 14-8-15-20

2. Name of Operator: Wind River Resources Corporation

9. API Well No.: 43-047-39146

3a. Address: 1245 E. Brickyard Rd., Ste. 110, Salt Lake City, UT 84106

3b. Phone No. *(include area code)*: 435-466-4131

10. Field and Pool, or Exploratory: Exploratory

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*

At surface: 195' FNL & 2,419' FWL (NENW) Sec. 17-T15S-R20E

At proposed prod. zone: 175' FSL & 2,449' FWL (SESW) Sec. 8-T15S-R20E

11. Sec., T., R., M., or Blk. and Survey or Area: Sec. 17-T15S-R20E, SLB&M

14. Distance in miles and direction from nearest town or post office*: Approximately 55 miles SSE of Roosevelt

12. County or Parish: Uintah

13. State: Utah

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any): 195'

16. No. of Acres in lease: 640

17. Spacing Unit dedicated to this well: 40 acres

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.: 4,950' from bottom hole to bottom hole

19. Proposed Depth: 12,500' (TVD) 12,516' (MD)

20. BLM/BIA Bond No. on file: Zions Bank - SB-509795

21. Elevations (Show whether DF, KDB, RT, GL, etc.): 7,243' (GL)

22. Approximate date work will start*: Upon Approval

23. Estimated duration: 35 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature: Marc E. Eckels — Name *(Printed/Typed)*: Marc E. Eckels — Date: 9-20-07

Title: Vice President

Approved by *(Signature)*: Jerry Kenczka — Name *(Printed/Typed)*: Jerry Kenczka — Date: 11-7-2007

Title: Assistant Field Manager Lands & Mineral Resources — Office: VERNAL FIELD OFFICE

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED

RECEIVED

NOV 09 2007

DIV. OF OIL, GAS & MINING

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE
170 South 500 East VERNAL, UT 84078 (435) 781-4400

CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	**Wind River Resources**	**Location:**	**NENW, Sec 17, T15S, R20E**
Well No:	**North Hill Creek 14-8-15-20**	**Lease No:**	**2OG0005577**
API No:	**43-047-39646**	**Agreement:**	**N/A**

Title	Name	Office Phone Number	Cell Phone Number
Petroleum Engineer:	Matt Baker	(435) 781-4490	(435) 828-4470
Petroleum Engineer:	Michael Lee	(435) 781-4432	(435) 828-7875
Petroleum Engineer:	James Ashley	(435) 781-4470	(435) 828-7874
Petroleum Engineer:	Ryan Angus	(435) 781-4430	(435) 828-7368
Supervisory Petroleum Technician:	Jamie Sparger	(435) 781-4502	(435) 828-3913
NRS/Enviro Scientist:	Paul Buhler	(435) 781-4475	(435) 828-4029
NRS/Enviro Scientist:	Karl Wright	(435) 781-4484	(435) 828-7381
NRS/Enviro Scientist:	Holly Villa	(435) 781-4404	
NRS/Enviro Scientist:		(435) 781-4476	
NRS/Enviro Scientist:	Chuck Macdonald	(435) 781-4441	(435) 828-7481
NRS/Enviro Scientist:	Jannice Cutler	(435) 781-3400	(435) 828-3544
NRS/Enviro Scientist:	Michael Cutler	(435) 781-3401	(435) 828-3546
NRS/Enviro Scientist:	Anna Figueroa	(435) 781-3407	(435) 828-3548
NRS/Enviro Scientist:	Verlyn Pindell	(435) 781-3402	(435) 828-3547
NRS/Enviro Scientist:	Darren Williams	(435) 781-4447	
NRS/Enviro Scientist:	Nathan Packer	(435) 781-3405	(435) 828-3545
		Fax: (435) 781-3420	

A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Construction Activity	-	The Ute Tribe Energy & Minerals Dept. shall be notified in writing 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.
Construction Completion	-	Upon completion of the pertinent APD/ROW construction, notify the Ute Tribe Energy & Minerals Dept. for a Tribal Technician to verify the Affidavit of Completion.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings.
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)

- A _30_ foot corridor right-of-way shall be approved. Upon completion of each pipeline in corridor, they shall be identified and filed with the Ute Tribe.
- A qualified Archaeologist accompanied by a Tribal Technician will monitor trenching construction of pipeline.
- The Ute Tribe Energy & Minerals Department is to be notified, in writing 48 hours prior to construction of pipeline.
- Construction Notice shall be given to the department on the Ute Tribe workdays, which are Monday through Thursday. The Company understands that they may be responsible for costs incurred by the Ute Tribe after hours.
- The Company shall inform contractors to maintain construction of pipelines within the approved ROWs.
- The Company shall assure the Ute Tribe that "ALL CONTRACTORS, INCLUDING SUB-CONTRACTORS, LEASING CONTRACTORS, AND ETC." have acquired a current and valid Ute Tribal Business License and have "Access Permits" prior to construction, and will have these permits in all vehicles at all times.
- You are hereby notified that working under the "umbrella" of a company does not allow you to be in the field, and can be subject to those fines of the Ute Tribe Severance Tax Ordinance.
- Any deviation of submitted APDs and ROW applications the Companies will notify the Ute Tribe and BIA in writing and will receive written authorization of any such change with appropriate authorization.
- The Company will implement "Safety and Emergency Plan." The Company's safety director will ensure its compliance.
- All Company employees and/or authorized personnel (sub-contractors) in the field will have approved applicable APDs and/or ROW permits/authorizations on their person(s) during all phases of construction.
- All vehicular traffic, personnel movement, construction/restoration operations should be confined to the area examined and approved, and to the existing roadways and/or evaluated access routes.
- All personnel should refrain from collecting artifacts, any paleontological fossils, and from disturbing any significant cultural resources in the area.
- The personnel from the Ute Tribe Energy & Minerals Department should be notified should cultural remains from subsurface deposits be exposed or identified during construction. All construction will cease.
- All mitigative stipulations contained in the Bureau of Indian Affairs Site Specific Environmental Assessment (EA) will be strictly adhered.

- Upon completion of Application for Corridor Right-Way, the company will notify the Ute Tribe Energy & Minerals Department, so that a Tribal Technician can verify Affidavit of Completion.

ADDITIONAL CONDITIONS OF APPROVAL:

- Storage tanks and facilities shall be painted juniper green.
- Tanks shall be surrounded by an earthen berm capable of containing 110% of the tank capacity.
- A secondary berm will be installed on the north, east, and west sides of the location.
- Three culverts of suitable diameter shall be installed in drainages crossed by access road.
- Trees removed from location and access road shall be pushed to the edge of cleared area.
- Cut and stock-pile trees.
- For any other additional stipulations, see concurrence letter.

DOWNHOLE CONDITIONS OF APPROVAL

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

SITE SPECIFIC DOWNHOLE CONDITIONS OF APPROVAL

- A formation integrity test shall be performed after drilling twenty feet or less below the surface casing shoe.

- The top of the production casing cement shall extend a minimum of 200 feet above the surface casing shoe.

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well. Any changes in operation must have prior approval from the BLM, Vernal Field Office Petroleum Engineers.

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.

- **Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.**

- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.

- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.

- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.

- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.

- No aggressive/fresh hard-banded drill pipe shall be used within casing.

- All shows of fresh water and minerals shall be reported and protected. A sample shall be taken of any water flows and a water analysis furnished the BLM, Vernal Field Office. All oil and gas shows shall be adequately tested for commercial possibilities, reported, and protected.

- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover

equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM, Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM, Vernal Field Office shall be obtained and notification given before resumption of operations.

- Chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.

- Any change in the program shall be approved by the BLM, Vernal Field Office. "Sundry Notices and Reports on Wells" (Form BLM 3160-5) shall be filed for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

- Emergency approval may be obtained orally, but such approval does not waive the written report requirement. Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan pursuant to Onshore Oil & Gas Order No. 1 of 43 CFR 3164.1 and prior approval by the BLM, Vernal Field Office.

- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.

- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- A cement bond log (CBL) will be run from the production casing shoe to the surface casing shoe and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

- **Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease shall have prior written approval from the BLM, Vernal Field Office.

- All measurement points shall be identified as point of sales or allocation for royalty determination prior to the installation of facilities.

- Oil and gas meters shall be calibrated in place prior to any deliveries. The Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM, Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement.

- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM, Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.

- This APD is approved subject to the requirement that, should the well be successfully completed for production, the BLM, Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:

    - Operator name, address, and telephone number.
    - Well name and number.
    - Well location (¼¼, Sec., Twn, Rng, and P.M.).
    - Date well was placed in a producing status (date of first production for which royalty will be paid).
    - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
    - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
    - Unit agreement and / or participating area name and number, if applicable.
    - Communitization agreement number, if applicable.

- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from Field Office Petroleum Engineers.

- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A shall be reported to the BLM, Vernal Field Office. Major events as defined in NTL3A, will be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production

- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.

- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

Reset Form

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: Wind River Resources Corporatio

Operator Account Number: N 1850

Address: 1245 E. Brickyard Rd., Suite 110

city Salt Lake City

state UT zip 84106

Phone Number: 801-466-4131

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
43-047-39646	NHC 14-8-15-20		NENW	17	15S	20E	Uintah
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
A	99999	16519	11-18-2007			11/26/07	

C

Comments: Spud with air rig setting conductor. Directional well with surface location in Sec. 17 and producing intervals in SESW Sec. 8.
WINGT

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	

Comments:

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	

Comments:

RECEIVED
NOV 26 2007
DIV. OF OIL, GAS & MINING

ACTION CODES:

- **A** - Establish new entity for new well (single well only)
- **B** - Add new well to existing entity (group or unit well)
- **C** - Re-assign well from one existing entity to another existing entity
- **D** - Re-assign well from one existing entity to a new entity
- **E** - Other (Explain in 'comments' section)

Marc T. Eckels
Name (Please Print)

Signature

Vice President
Title

11-21-2007
Date

(5/2000)

NOTICE OF LATE REPORTING
DRILLING & COMPLETION INFORMATION

Utah Oil and Gas Conservation General Rule R649-3-6 states that,

➤ Operators shall submit monthly status reports for each drilling well (including wells where drilling operations have been suspended).

Utah Oil and Gas Conservation General Rule R649-3-21 states that,

➤ A well is considered completed when the well has been adequately worked to be capable of producing oil or gas or when well testing as required by the division is concluded.

➤ Within 30 days after the completion or plugging of a well, the following shall be filed:

- Form 8, Well Completion or Recompletion Report and Log
- A copy of electric and radioactivity logs, if run
- A copy of drillstem test reports,
- A copy of formation water analyses, porosity, permeability or fluid saturation determinations
- A copy of core analyses, and lithologic logs or sample descriptions if compiled
- A copy of directional, deviation, and/or measurement-while-drilling survey for each horizontal well

Failure to submit reports in a timely manner will result in the issuance of a Notice of Violation by the Division of Oil, Gas and Mining, and may result in the Division pursuing enforcement action as outlined in Rule R649-10, Administrative Procedures, and Section 40-6-11 of the Utah Code.

As of the mailing of this notice, the division has not received the required reports for

Operator: Wind River Resources Corp Today's Date: 04/21/2008

Well:	API Number:	Drilling Commenced:
NHC 1-8-15-20	4304736909	05/01/2006
NHC 12-33-15-20	4304739499	08/22/2007
NHC 1-11-15-20	4304739589	11/05/2007
NHC 14-8-15-20 15S 20E 17	4304739646	11/18/2007

☐ List Attached

To avoid compliance action, required reports should be mailed within 7 business days to:

Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, Utah 84114-5801

If you have questions or concerns regarding this matter, please contact Rachel Medina at (801) 538-5260.

cc: Well File
Compliance File

Form [illegible]-5
(Aug[illegible]999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

5. Lease Serial No.
20G0005577

6. If Indian, Allottee or Tribe Name
Ute Indian Tribe

7. If Unit or CA/Agreement, Name and/or No.
N/A

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No. North Hill Creek 14-8-15-20

2. Name of Operator
Wind River Resources Corporation

9. API Well No.
43-047-39646

3a. Address 1245 E. Brickyard Rd., Suite 110
Salt Lake City, UT 84106

3b. Phone No. *(include area code)*
801-466-4131

10. Field and Pool, or Exploratory Area
Exploratory

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
195' FNL & 2,419' FWL NENW Sec. 17-T15S-R20E (surface)
70' FSL & 2,456' FWL SESW Sec. 8-T15S-R20E (at lower pers)

11. County or Parish, State
Uintah, Utah

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☒ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Notice of First Production: The North Hill Creek 14-8-15-20 was put on production at 4 p.m. on May 13, 2008, flowing natural gas from the Mancos Shale into the gathering system for Wind River's North Hill Creek Compressor Station. This gas is transported to market via the Comet Pipeline to Questar's main Line 40 south of Ouray, UT.

14. I hereby certify that the foregoing is true and correct
Name *(Printed/Typed)*
Marc T. Eckels

Title Vice President

Signature [signature]

Date May 15, 2008

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

RECEIVED
MAY 16 2008
DIV OF OIL, GAS & MINING

Form 3160-5
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

5. Lease Serial No.
20G0005577

6. If Indian, Allottee or Tribe Name
Ute Indian Tribe

7. If Unit or CA/Agreement, Name and/or No.
N/A

1. Type of Well
☐ Oil Well ☐ Gas Well ☒ Other

8. Well Name and No. North Hill Creek 14-8-15-20

2. Name of Operator
Wind River Resources Corporation

9. API Well No.
43-047-39646

3a. Address 1245 E. Brickyard Rd., Suite 110
Salt Lake City, UT 84160

3b. Phone No. *(include area code)*
801-466-4131

10. Field and Pool, or Exploratory Area
Exploratory (Flat Rock)

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Surface - 195' FNL & 2,419' FWL NENW Sec. 17-T15S-R20E
At Mancos Perfs - 70' FSL & 2,456' FWL SESW Sec. 8-T15S-R20E
SLB&M

11. County or Parish, State
Uintah, Utah

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other Drilling Report
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

North Hill Creek 14-8-15-20 - see attached narrative.

RECEIVED
MAY 22 2008
DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct
Name *(Printed/Typed)*
Marc T. Eckels

Title Vice President

Signature

Date May 20, 2008

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

WIND RIVER RESOURCES CORPORATION
NORTH HILL CREEK 14-8-15-20 – DRILLING REPORT NARRATIVE

11-19-2007 & 11-20-2007: Move in and rig up Leon Ross air rig and air hammer drill 12-1/4" surface hole to 552'. Rig down and move out air rig.

11-23-2007 thru 11-26-2007: Move in and rig up True Rig #22 rotary tools.

11-27-2007 thru 12-2-2007: Pick up bottom hole assembly, mud up and commence drilling 12-1/4" surface hole at 552'. Drill surface hole to 2,700' with full returns. Run 67 joints 9-5/8", 36#, J-55 ST&C surface casing. Land casing at 2,6863' (KB) with guide shoe, float collar and 8 centralizers. No fill in hole. Cement surface casing (Superior) with 277 sx class A w/ 16% gel, 1% supersil-sp, 10#/sk gilsonite, 2% airout, 3%salt ¼#/sk celloflake, slurry wt. =11.0 ppg and tail with 180 sx class a w/ 2% Cal Chloride, ¼#/sk celloflake, slurry wt = 15.6 ppg. Circulated 80 bbl slurry to pit. Plug down at 9:47 pm, 12-2-2007. Wait on cement. Mud logger on location.

12-3-2007: Cut conductor and 9-5/8" casing. Weld on 11"X5M casing head. Nipple up and test BOP stack, HCR valve and choke manifold to 5,000 psi and annular BOP to 2,500 psi. Cement top dropped 94'. Top off cement job with ready mix. Install flare lines from choke manifold. Make up 7-7/8" bit and trip in hole. Wash down last 5 joints to float collar. Drill float collar, cement, and 5' of formation. Perform FIT test: 9.1 ppg mud @ 290 psi and 2,705' = 11.162 EMW. Drill ahead to 2,800'.

12-4-2007 thru 12-20-2007: Drill vertical 7-7/8" hole in formation from 2,800' to directional kick-off point at 5,885' with full returns. Trip for directional drilling tools. Trip in hole, washing last 42' to bottom. Drill and slide to establish azimuth of 4.73 degrees and inclination of 5 degrees at 6,135'. Hold well path. Strong gas show at 7,420'. 8350u gas show at 8,350' produced 12' flare against 9.5 ppg mud. Oth shows in Mancos Shale. Carried flare up to 30' continuously with mud weight in range of 9.4-9.6 ppg. Dropped inclination to return to vertical at 10,069' Trip for bit and lay down directional tools at 11,025'.

12-21-2007 thru 1-1-2008: Drilling ahead w/bit #8 from 10,339' carrying flare with 9.6 ppg mud. Reach TD at 12, 410'at 9:30 am 12-27-2007. Circulate and make short trip. Condition hole for logging. Rig up Halliburton and run logs. Based on logs and lack of shows below Mancos, decided to set production casing at 8,671'. Discussed plug back requirements with Ryan Angus (BLM) and faxed Sundry Notice for plug back cementing to BLM for approval. Trip in hole with open-ended drill pipe and circulate from 12,410' while waiting on Halliburton cementers. Rig up cementers and set plugs as follows with BLM rep on location:

Plug #1 – 300' from 12,254'-11,954' = 103 sx
Plug #2 – 400' from 11,049'-10,649' = 160 sx – WOC and check top of cement. Found at 10,696', 37' short of objective. Plug approved by BLM rep.
Plug #3 – 200' from 8,900'-8,700' = 70 sx

Trip out of hole laying down drill pipe and drill collars. Rig up casing crew and run production casing on New Years Eve. Run 192 joints of 4-1/2', 11.6# HCP-110, LT&C. Land casing at 8,671' with float collar at 8,626' and marker joints at 8,618' and 6,969'. Circulate casing and rig up Halliburton cementers. Cement casing as follows: I

Lead – 430 sx Type V HiFill w/ 16% gel, 10#/sk gilsonite, 1/8#/sk PolyFlake, 1% salt, 1% Econolite and 0.2% HR-7. Slurry weight = 11.0 ppg
Tail – 1,266 sx Class G w/ 2% gel, 3#/sk silicalite, 0.5% Halad 344, 0.2% HR-5, 0.2% Super CBL, and 0.25% Halad 413. Slurry weight = 14.3 ppg.

Good circulation throughout job. Circulated 54 bbl slurry to pit. Displaced with 134 bbl fresh water. Plug down at 15:30, 12-31-2008. Set slips with 104,000#. Nipple down BOPs. Make rough cut on 4-1/2" casing. Clean rig tanks. Release True #22.

Form 3160-5
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

5. Lease Serial No.
20G0005577

6. If Indian, Allottee or Tribe Name
Ute Indian Tribe

7. If Unit or CA/Agreement, Name and/or No.
N/A

1. Type of Well
☐ Oil Well ☐ Gas Well ☒ Other

8. Well Name and No.
North Hill Creek 14-8-15-20

2. Name of Operator
Wind River Resources Corporation

9. API Well No.
43-047-39646

3a. Address 1245 E. Brickyard Rd., Suite 110
Salt Lake City, UT 84160

3b. Phone No. *(include area code)*
801-466-4131

10. Field and Pool, or Exploratory Area
Exploratory (Flat Rock)

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Surface - 195' FNL & 2,419' FWL NENW Sec. 17-T15S-R20E
At Mancos Perfs - 70' FSL & 2,456' FWL SESW Sec. 8-T15S-R20E
SLB&M

11. County or Parish, State
Uintah, Utah

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Spud Well
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

The North Hill Creek 14-8-15-20 was spudded at noon on 11-18-2007, by a Pete Martin bucket rig drilling 40' of 20" conductor hole and setting and cementing 40' of 14" conductor pipe.

RECEIVED
MAY 22 2008
DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct
Name *(Printed/Typed)* Marc T. Eckels — Title Vice President

Signature — Date May 20, 2008

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by — Title — Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. — Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Form 3160-5 (A[illegible] 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

5. Lease Serial No. 2OG0005577
6. If Indian, Allottee or Tribe Name: UTE INDIAN TRIBE
7. If Unit or CA/Agreement, Name and/or No.: N/A
8. Well Name and No.: NORTH HILL CREEK 14-8-15-20
9. API Well No.: 43-047-39646
10. Field and Pool, or Exploratory Area: EXPLORATORY
11. County or Parish, State: UINTAH, UTAH.

1. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other
2. Name of Operator: WIND RIVER RESOURCES CORP
3a. Address: 1245 E. BRICKYARD RD, SUITE 110 SALT LAKE CITY, UT 84106
3b. Phone No. *(include area code)*: 801-466-4131
4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
SURFACE: 195' FNL & 2,419' FWL (NENW) SEC 17-T15S-R20E
BH: 175' FSL & 2,449' FWL (SESW) SEC. 8-T15S-R20E

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☒ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Will run 4½", 11.6#, HCP-110, LT&C production casing to 8,700' and cement back to surface in place of 5½" casing originally proposed.

COPY SENT TO OPERATOR
Date: 6.10.2008
Initials: KS

RECEIVED
MAY 22 2008
DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct
Name *(Printed/Typed)*: MARC T. ECKELS
Title: VICE PRESIDENT
Signature: [signature]
Date: DECEMBER 28, 2007

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by
Title: Accepted by the Utah Division of Oil, Gas and Mining
Date: Federal Approval Of This Action Is Necessary
Office
Date: 6/12/08
By: [signature]

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Form 3160-5
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

5. Lease Serial No.
20G0005577

6. If Indian, Allottee or Tribe Name
UTE INDIAN TRIBE

7. If Unit or CA/Agreement, Name and/or No.
N/A

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.
North Hill Creek 14-2-15-20

2. Name of Operator
Wind River Resources Corporation

9. API Well No.
43-047-39646

3a. Address
1245 E. Brickyard Rd., Salt Lake City UT 84106

3b. Phone No. *(include area code)*
801-466-4131

10. Field and Pool, or Exploratory Area
Exploratory

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Surface: 196' FNL & 2,449' FWL (NENW) Sec. 17-T15S-R20E
Bottom Hole: 175' FSL & 2,449' FWL (SESW) Sec. 8-T15S-R20E

11. County or Parish, State
Uintah, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☒ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Please See Attached Sheet

COPY SENT TO OPERATOR
Date: 6·10·2008
Initials: KS

RECEIVED
MAY 22 2008
DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct
Name *(Printed/Typed)*
Mary T. Eckels — Title Vice Pres.

Signature — Date 12-28-2007

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by — Title — Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. — Office

Accepted by the Utah Division of Oil, Gas and Mining
Federal Approval Of This Action Is Necessary

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Date: 6/2/08
By: Dustin Doucet

ATTACHMENT TO SUNDRY NOTICE – DECEMBER 28, 2007
WIND RIVER RESOURCES CORP.
NORTH HILL CREEK 14-8-15-20 (UTE TRIBAL)

13. Plug Back Procedure

9-5/8" surface casing was set and cemented at 2,483'. A 7-7/8" hole was then drilled to a total depth of 12,409' in the Wingate sandstone. Open hole logging indicates that there are no commercial gas intervals below the Mancos Shale, which gave >8,000U gas shows and sustained a 3'-30' flare for two weeks from an interval at approximately 8,350'. This interval and several above it will be cased with 4-1/2", 11.6#, HCP-110, LT&C casing and completed. No detectable fluid was lost while drilling this well. The bottom hole temperature is 226 degrees F.

Permission is hereby requested for approval to plug back the well to 8,700' setting Class "G" cement plugs as follows:

Plug #1 – 1,665' long (10,639'-12,304') from 50' above the top of the Dakota Silt to 50' below the top of the Wingate (covering the bottom 50' of the Mancos Shale, the Dakota Silt, Dakota Sand, Cedar Mountain, Morrison, Summerville, Curtis, Entrada, Carmel, Kayenta and top 50' of the Wingate)

Plug #2 – 187' long (8,700'-8,900') from the 4-1/2" production casing shoe to 187' below that point in the Mancos Shale.

This will result in a cement plug covering all of the uncased interval with the exception of the 1,739' between 8,900' and 10,639'. This entire interval is dry Mancos Shale and will be left covered with 9.6 ppg drilling mud.

Because of the risks associated with pulling the drill pipe through 1,665' of cement, retarder be added to the cement to achieve a 6-hour pump time. It is proposed that if the hole remains full after the cement has been pumped, the second plug be set without requiring that the first plug be tagged.

Wind River Resources Corporation
1245 E. Brickyard Road, Suite 110
Salt Lake City, Utah 84106

Office: 801-466-4131 Fax: 801-466-4132

June 9, 2008

Ms. Rachel Medina
Division of Oil, Gas, and Mining
P.O Box 145801
Salt Lake City, Utah 84114-5801

Re: Transmittal of Completion Report
North Hill Creek 14-8-15-20
SESW Sec. 14-T15S-R20E
Lease Serial No. 20G0005577
Uintah County, UT

Dear Ms. Medina:

A copy of the completion report for the above-captioned well is enclosed, along with hard copies of the open-hole logs, the mud log, and the cement bond log.

Please call if you have any questions or need additional information.

Sincerely,

Richard Christiansen
VP Engineering

Cc: BLM
BIA
Ute Indian Tribe

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.: 20G0005577

1a. Type of Well: ☐ Oil Well ☑ Gas Well ☐ Dry ☐ Other
b. Type of Completion: ☑ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.,
Other: _____

6. If Indian, Allottee or Tribe Name: Ute Indian Tribe

7. Unit or CA Agreement Name and No.: N/A

2. Name of Operator: Wind River Resources Corporation

8. Lease Name and Well No.: North Hill Creek 14-8-15-20

3. Address: 1245 E. Brickyard Road, Suite 110, Salt Lake City, Utah 84106

3a. Phone No. *(include area code)*: 801-466-4131

9. AFI Well No.: 43-047-39646

4. Location of Well *(Report location clearly and in accordance with Federal requirements)**

At surface: 195' FNL & 2,419' FWL NENW Sec. 17-T15S-R20E

10. Field and Pool or Exploratory: Exploratory

11. Sec., T., R., M., on Block and Survey or Area: Sec. 14, T15S-R20E, SLB&M

At top prod. interval reported below: 18' FNL & 2,466' FWL SESW Sec. 17-T15S-R20E

At total depth: 142' FSL & 2,586' FWL SESW Sec. 8-T15S-R20E

12. County or Parish: Uintah

13. State: UT

14. Date Spudded: 11/18/2007

15. Date T.D. Reached: 12/27/2007

16. Date Completed: ☐ D & A ☑ Ready to Prod. 03/06/2008

17. Elevations (DF, RKB, RT, GL)*: KB

18. Total Depth: MD 12,409' TVD 12,391

19. Plug Back T.D.: MD 8602' TVD 8589'

20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each): ~~Triple Combo~~, Sonic, GR, Caliper, Directional; CBL, GR, CCL Sonic, for Delta T SDLDSN, ACTR, Mud

22. Was well cored? ☑ No ☐ Yes (Submit analysis)
Was DST run? ☑ No ☐ Yes (Submit report)
Directional Survey? ☐ No ☑ Yes (Submit copy)

23. Casing and Liner Record *(Report all strings set in well)*

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12.25"	9-5/8" J-55	36	Surface	2683'		227 sx Class A		Surface	
						180 sx Class A			
						45 sx ReadyMix			
7.875	4-1/2" P-110	11.6	Surface	8673		430 sx V HiFill		2540' (CBL)	
						1266 sx Class G			

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	8298'	NA						

25. Producing Intervals / 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Mancos	7420'	7450'	7420-50'	0.35	30	Open
B) Mancos	8350'	8380'	8350-80'	0.35	30	Open
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, etc.

Depth Interval	Amount and Type of Material
7420-50'	Frac: 48,000# 30-50 Sand
8350-80'	Frac: 48,000# 30-50 Sand

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
5/13/08	3/9/2008	8	→					0.75	Combined flow from A & B intervals; problems with ice and hydrates in tubing and choke

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status
20	800	1500	→		500-1500			Prod

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
5/13/08			→						See above

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status
			→					

*(See instructions and spaces for additional data on page 2)

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28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status

29. Disposition of Gas *(Solid, used for fuel, vented, etc.)*
Compressed and sold into Comet pipeline

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
Green River	Surface	2586'	No samples or mud log (which started at 2700'). No fluid loss.	Green River	Surface
Wasatch	2586'	4782'	Occasional thick sands, but no gas shows. No fluid loss.	Wasatch	2586'
Ohio Creek Conglomerate	4782'	4798'	Small gas show. No fluid loss.	Mesa Verde	4798'
Mesa Verde	4798'	6842'	Some gas shows in lower Tuscher/Farrer, Neslen, Upper Sego, and Castlegate. No fluid loss.	Mancos Shale	6842'
Mancos	6842'	10,691'	Large gas show at 7420'. From 8430' to TD, gas sensor remained at 6,000 to 8,000 units. No fluid loss.	Dakota Silt	10,691'
Dakota/Cedar Mtn	10,691'	11,030'	No definitive gas indications on mud log. Some small porous zones with cross-over. No fluid loss.	Entrada	11,784'
				Wingate	12,258'

32. Additional remarks (include plugging procedure):

Open-hole logs showed no potential for commercial gas production below the Mancos Shale. So the lower portion of the well was plugged with cement as follows: (1) the first plug was set with 103 sx from 12,254' to 11,954' KB; (2) the second plug was set with 160 sx from 11,049' to 10'649' KB; (3) the third plug was set with 70 sx from 8,900' to 8,700' KB.

33. Indicate which items have been attached by placing a check in the appropriate boxes:

☑ Electrical/Mechanical Logs (1 full set req'd.) ☑ Geologic Report ☐ DST Report ☐ Directional Survey

☐ Sundry Notice for plugging and cement verification ☐ Core Analysis ☐ Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

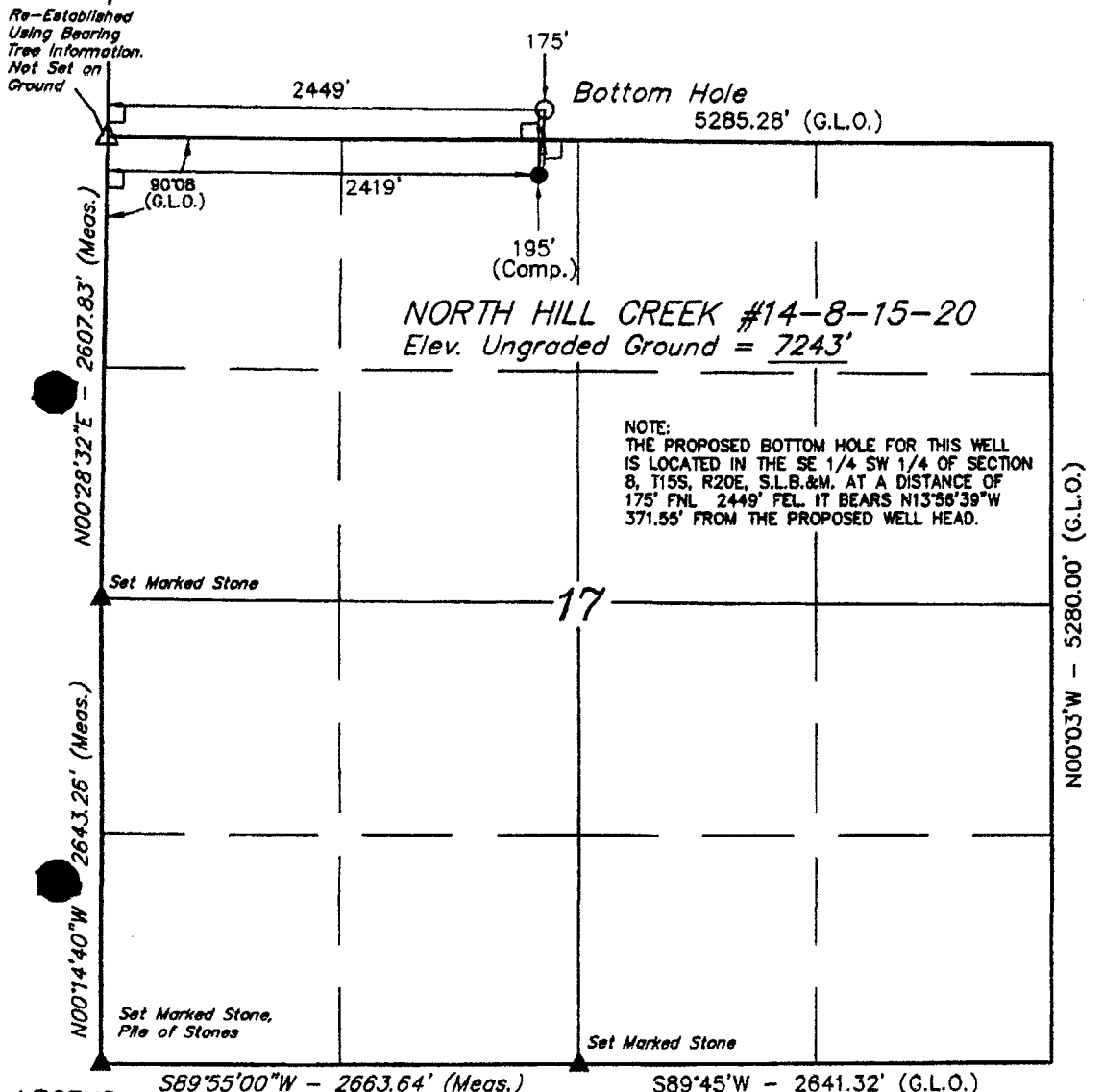
Name *(please print)* Richard L. Christiansen Title VP Engineering

Signature Richard L. Christiansen Date 06/06/2008

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 3)

T15S, R20E, S.L.B.&M.



LEGEND:

- L = 90° SYMBOL
- ● = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.
- △ = SECTION CORNERS RE-ESTABLISHED (NOT SET ON GROUND)

(NAD 83)
LATITUDE = 39°31'09.62" (39.519339)
LONGITUDE = 109°42'11.55" (109.703208)
(NAD 27)
LATITUDE = 39°31'09.75" (39.519375)
LONGITUDE = 109°42'09.06" (109.702517)

WIND RIVER RESOURCES CORP.

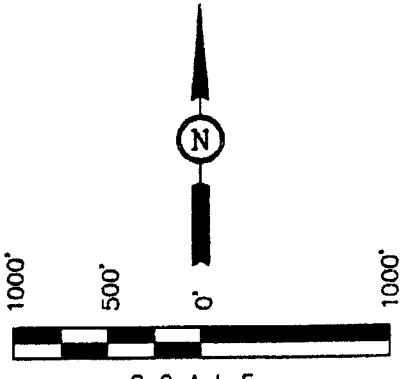
Well location, NORTH HILL CREEK #14-8-15-20, located as shown in the NE 1/4 NW 1/4 of Section 17, T15S, R20E, S.L.B.&M., Uintah County, Utah.

BASIS OF ELEVATION

BENCH MARK (59 WF) LOCATED IN THE NW 1/4 OF SECTION 10, T15S, R20E, S.L.B.&M. TAKEN FROM THE FLAT ROCK MESA QUADRANGLE, UTAH, UINTAH COUNTY 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 7449 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



CERTIFICATE AND SURVEYOR'S SEAL

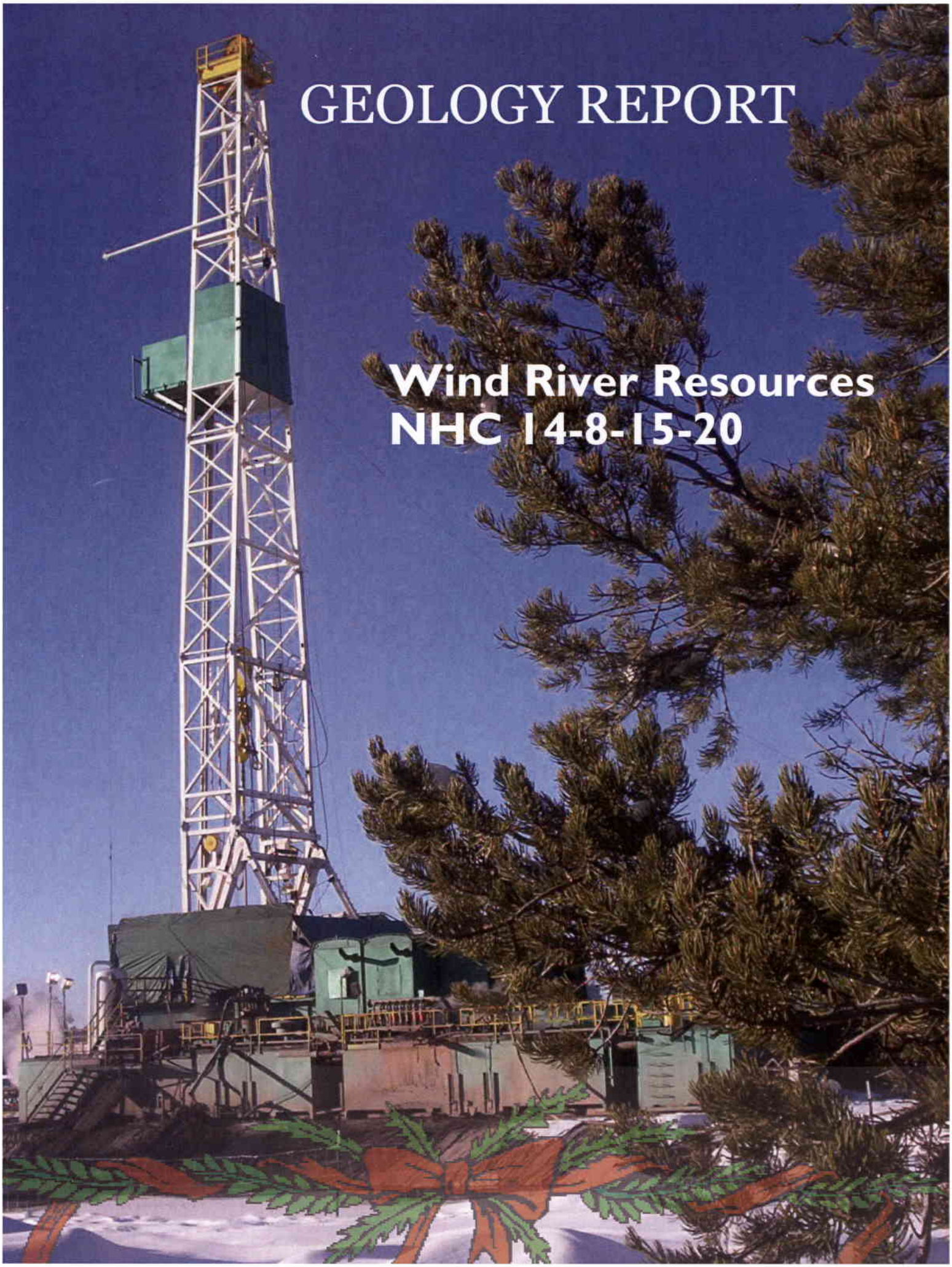
THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

ROBERT L. KAY
REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

REVISED: 09-24-07

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

SCALE: 1" = 1000'	DATE SURVEYED: 05-25-07	DATE DRAWN: 08-15-07
PARTY: D.R. K.A. C.H.	REFERENCES: G.L.O. PLAT	
WEATHER: HOT	FILE: WIND RIVER RESOURCES CORP.	



GEOLOGY REPORT

Wind River Resources
NHC 14-8-15-20

Steamboat Energy Consultants
PO BOX 881570
Steamboat Springs, Colorado 80488
Office (970) 870 9964

GEOLOGY REPORT

Wind River Resources Corporation

NHC 14-8-15-20

Surface Location:
NE NW Sec 17, T15S, R20E
2,419' FWL & 195' FNL
Botton Hole Location
SE SW Sec 8, T15S, R20E
82' FSL & 2,526' FWL
Uintah County, Utah

Wellsite Geologist
Gregg Smith
Ft. Collins , CO
970 819 5450

TABLE OF CONTENTS

GEOLOGICAL REPORT

Wind River Resources Corporation
NHC 14-8-15-20

Well Resume

Operator: Wind River Resources Corporation

WELL INFORMATION	Well Name	NHC 14-8-15-20		
	Location (surface)	NE NW Sec 17, T15S, R20E	Bottom Hole:	SE SW Sec 8, T15S, R20E
	County, State	Uintah County, Utah		
	Spot, (surface)	2,419' FWL & 195' FNL	Bottom Hole	82' FSL & 2,526' FWL
	Pre-Drilled Surface Hole drilled to	568'	API #	43-047-39646
	Spud Date	11/26/07	Time: 11:00 PM	Drlg Started 568'
	Total Death	Driller 12,410'	Logger	12,409'
	Completion Date (TD)	Thursday, December 27, 2007	Time:	9:20 AM

HOLE	Hole Size	12 1/4" to 2,700'	7 7/8" to TD
	Casing	9 5/8" , 36#, J55 @ 2,685'	4 1/2" set @ 8,671'
	Cement	277 sks class A, 180 sks Class A, 2% CaCl - C2, 1/4#/sk super flake	RUN 192 JTS 4.4" 11.6#, N-80 HCP, LT&C CASING = 8,674', CMT W/ 430 SX LEAD, 1,266 SX TAIL

ELEV	GL	7,243'
	KB	7,259'

PERSONNEL	Exploration Manager	Marc Eckels
	Drilling Foreman	Dempsey Day, Kenneth Nielson
	Wellsite Geologist	Gregg Smith, Steamboat Energy Consultants
	Directional Drillers	Ryan Birtch, Bill Wright
	Tool Pusher	Tom Alber, Billy Hatfield

CONTRACTORS	Drilling Company	True Drilling LLC	
	Rig #	22	
	Mud Company	Mustang Drilling Fluids	
	Mud Type	Water LSND	Mud Up @ 2,700'
	Mud Engineer	Dan Kastel	
	Mud Logging Company	None	
	Petrophysical Logging Company	Halliburton (Rock Springs)	
	Logging Engineer:	D Schwarzenberger	
	Log Suite	Spectral Density/DSN, Array Comp True Resistivity, BHC Sonic, Magnetometer, all TD - Sfc Csg, GR to surface	
	Directional Drilling/MWD	Weatherford	

SUMMARY	Drilling Days	27
	Rotating Hours	541.50
	Bottom Hole Formation	Wingate
	Potentially productive zones	Mesaverde, ***Mancos Shale, Mancos 'B'***
	Final Status	4 1/2" production casing set at 8,671'.

FORMATION LOG TOPS

NHC 14-8-15-20

Surface Location - NE NW Sec 17, T15S, R20E

Bottom Hole Loc- SE SW Sec 8, T15S, R20E

Period	Formation	KB 7,259' LOG TOPS			Unconformities
		Measured Depth	True Vertical Depth	Datum	
TERTIARY	*Green River*	Surface	-	-	
	Wasatch	2,586'	2,586'	(+4,673')	
	Ohio Creek Conglomerate	4,782'	4,782'	(+2,477')	
CRETACEOUS	Mesaverde Group: *Tuscher/Farrer ?*	4,798'	4,798'	(+2,461')	-KT-
	Mesaverde Group: *Neslen*	5,942'	5,939'	(+1,320')	
	Mesaverde Group: *Upper Sego*	6,468'	6,464'	(+795')	
	Mesaverde Group: *Lower Sego*	6,572'	6,567'	(+692')	
	Mesaverde Group: *Buck Tongue*	6,607'	6,602'	(+657')	
	Mesaverde Group: *Castlegate*	6,640'	6,635'	(+624')	
	Mancos: *Mancos Shale*	6,842'	6,836'	(+423')	
	Mancos: *Mancos B (Prairie Canyon)*	7,402'	7,394'	(-135')	
	Mancos: *Lower Blue Gate*	8,185'	8,183'	(-924')	
	Mancos: *Mancos "Show Zone"*	10,458'	10,442'	(-3,183')	
	Dakota Group: *Dakota Silt*	10,691'	10,674'	(-3,415')	
	Dakota Group: *Dakota*	10,790'	10,773'	(-3,514')	
	Dakota Group: *Cedar Mountain*	10,904'	10,887'	(-3,628')	-K1-
	Dakota Group: *Buckhorn Conglomerate*	11,021'	11,004'	(-3,745')	
	Morrison: *Brushy Basin*	11,030'	11,013'	(-3,754')	-K0-
	Morrison: *Salt Wash*	11,369'	11,351'	(-4,092')	
JURASSIC	*Summerville*	11,670'	11,652'	(-4,393')	-J5-
	Curtis	11,704'	11,685'	(-4,426')	-J4-
	Moab Tongue	11,770'	11,751'	(-4,492')	-J3-
	Entrada, Slick Rock Member	11,784'	11,765'	(-4,506')	
	Carmel	12,062'	12,043'	(-4,784')	
	Kayenta	12,184'	12,165'	(-4,906')	-J2-
	Wingate	12,258'	12,239'	(-4,980')	
TOTAL DEPTH		12,409'	12,390'	(-5,131')	

SUMMARY

Wind River Resources Corporation drilled the NHC 14-8-15-20 to a total depth of 12,410' between November 26, 2007 and December 27, 2007. The hole was drilled directionally in order to achieve a bottom hole location to the southwest (SE SW Sec. 8), beneath Hill Creek Canyon, along an planned azimuth of 4.73 degrees. Drilling began at 568' out from under a pre-drilled 12 ¼" surface hole. A maximum inclination of 6.4 degrees was achieved at 8300' then straightened out to ~ 2 degrees above the Dakota Silt and maintained at that inclination to total depth.

OPERATIONS

Drilling operations were conducted by True Drilling LLC, Rig 22. There were no significant operational problems or delays. The gas separator was engaged due to a gas increase starting at 8,358', MD, resulting in a 3 to 10 foot flare that was intermittently present ,while drilling, to total depth.

OBJECTIVES

Based on three D seismic interpretation the NHC 14-8-15-29 was drilled as a natural gas exploratory well located on Flat Rock Mesa as an North Hill Creek extension well. Primary objectives were for gas reservoir development and include the Cedar Mountain and Entrada Formations. Secondary objectives included the Mancos Shale, and Wingate Sandstone.

Sample evaluation started at 2,700'. Sample quality was generally fair to good with notable exceptions in the Entrada Fm which was dominated by Morrison Shale cavings. There were a total of 35 separate gas shows recorded using MSI gas detection equipment through the Mancos formation at a depth of 8,358'. A gas increase of 8,350 units, apparently from a drilling break at 8,356' to 8,386', resulted in a continuous elevated background gas that effectively masked all subsequent formation gas increases that may have been present from that point throughout the remainder of the hole.

DISCUSSION OF GAS AND OIL SHOWS

Wasatch Fm. (Ohio Creek Conglomerate)

Minor gas (56 units) associated with the basal Wasatch was recorded at 4,778' The Ohio Creek Conglomerate was well developed and easily discernable by the distinct increase in varicolored chert.

Mesaverde Formation

Twenty one separate gas increases were recorded through the Mesaverde Fm. Most notable at 6352'- a 3,277 unit increase from Sandstone associated with Coal. Described as - SANDSTONE; white to light gray, friable to firm fine to lower fine grained, black to brown mineral inclusions, well sorted and consolidated, occasionally black very carbonaceous stringers and partings, no visible porosity, no fluorescence stain odor or cut. Loose COAL, black vitreous, brittle. All gas shows were associated to some degree with coal or carbonaceous material. Minor gas associated with the Lower Sego of 185

units (figure1) originated from tight fine grained sand. All gas increases recorded in the Mesaverde must be evaluated in association with e-logs to determine their respective productive potential.

Castlegate

Several moderate gas shows and oil shows were present in the Castlegate originating from tight sandstone and carbonaceous shale, (Figure 2). A general description of the upper sandstone follows; SANDSTONE; white to very pale brown, firm to friable, fine to very fine grained, subangular to sub rounded, well sorted and consolidated, spotty siliceous matrix, predominantly tight with trace poor to fair intergranular porosity, occasional moderate to bright yellow gold fluorescence, spotty to even light brown stain, fair streaming cut. Logs indicate poor, thin and moderately tight reservoir development.

Mancos Shale

Three distinct and potentially productive zones were present in the Mancos Formation. 1) A thin silty zone at 7,020' with a gas increase of 1,545 units, 2) 7,425' (Mancos B) a potentially productive fractured zone associated with a thin silty bench @ 7,436', (figure 4). Clearly discernable quartz and siderite crystal growths may represent fracture fill, and 3) a 30' drilling break at the top of the Lower Blue Gate Member at 8,356' to 8'386' associated with 8,350 unit gas increase that would not go away even though circulated through the gas buster and maintaining a mud weight over 9.6 pounds. Samples from this interval were not clearly interpretable consisting mostly of regional Mancos Shale and minor siltstone. Trace Inoceramous fragments were also noted in this zone. E-Logs likewise did not indicate any significant lithological change. The persistence of the gas initially encountered at 8,358' elevating the background gas and sustaining a flare throughout drilling is unprecedented in this writers experience and may represent very good productive potential.

Dakota Group

The Dakota Silt was actually more of a siltstone than sandstone with no reservoir development. Cuttings samples indicate several fair sandstone developments in the Dakota and Cedar Mountain Formations, (figures 5,6,7) E-Log examination and evaluation indicates these zones to be quite thin, relatively tight and of limited productive potential.

Entrada

Cuttings samples from the Entrada Sand interval were quite poor, a condition most likely resulting from the use of PDC bits. The superjacent Curtis Sand (figure 8) was helpful in determining the Entrada top. There was no evident reservoir development indicated by samples, gas, or on E-Logs.

Wingate

Low resistivity in the well developed sandstone present in the upper Wingate formation suggests this zone to be water productive and non economical as far as gas production is concerned.

Conclusions

After evaluation of E-Logs the productive potential of the Dakota Group, Entrada and Wingate were determined to be minimal. Four and one half inch production casing was set at 8,671' to further evaluate the gas productive potential of the Mancos Formation with secondary possible gas production in the Castlegate and Mesaverde Formations.

Gregg Smith

Steamboat Energy Consultants
Fort Collins, CO 80526
970-819-5450

Ohio Creek Conglomerate
Figure 1

Lower Sego 6,570'-6,580'
Figure 2

Castlegate SS 6750' to 6760'
Figure 3

Siderite & Quartz Crystals, Mancos B
Figure 4

Dakota SS 10,860' - 10,880'
Figure 5

Dakota 10,900' - 10,920'
Figure 6

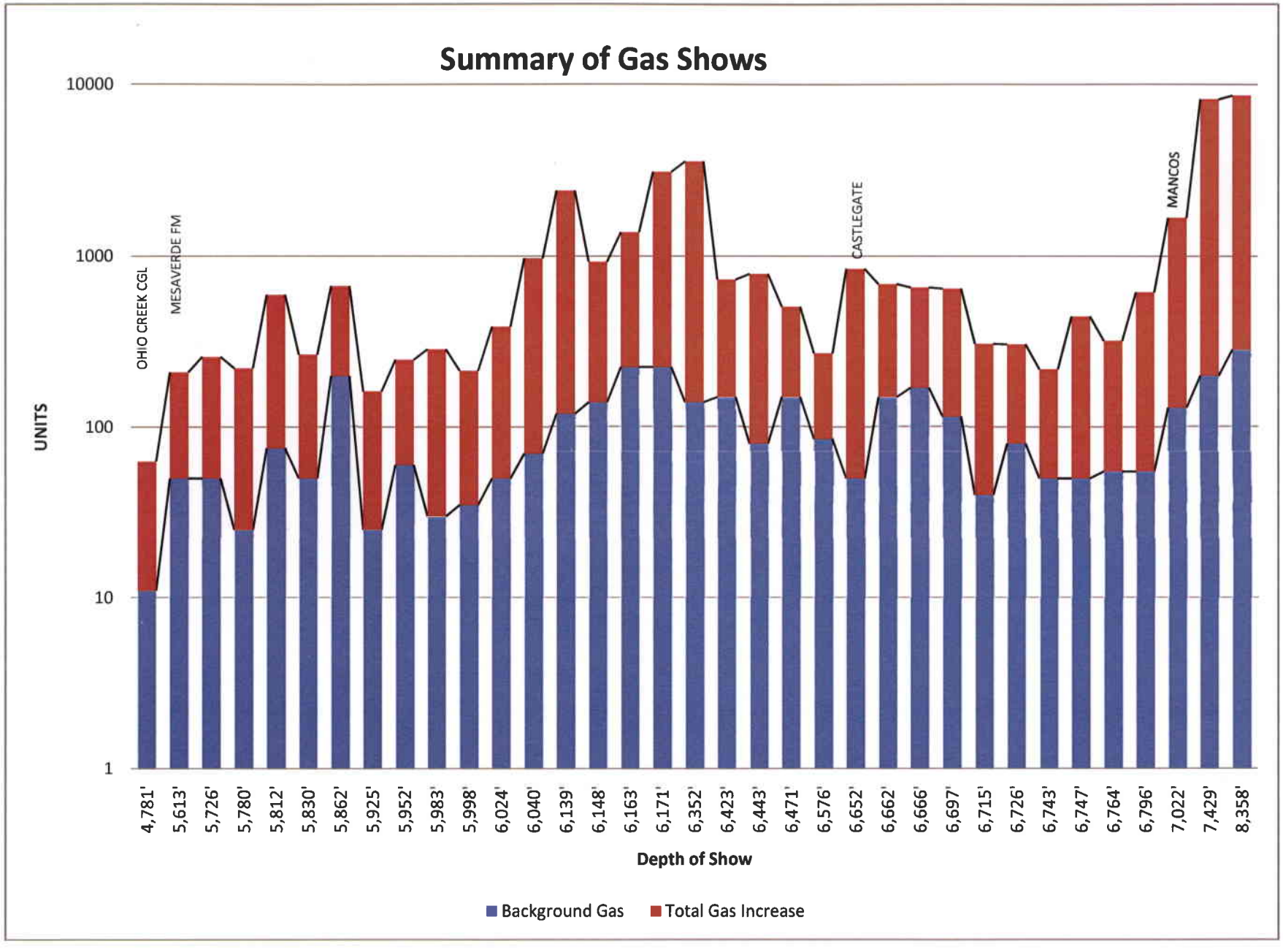
Cedar Mountain 10,940' to 10,950'
Figure 7

Curtis SS 11,710'-11,740'
Figure 8

SUMMARY OF GAS SHOWS

Formation	Show No	DEPTH (MD)	Total Gas (units)			Chromatograph (ppm)			
			BK GD	Peak	Increase	C1	C2	C3	C4
Ohio Creek Cgl	**1**	**4,781'**	**11**	**52**	**41**	**3257**	**1959**	**0**	**0**
Mesaverde	2	5,613'	50	160	110	12150	2464	1408	0
	3	5,726'	50	208	158	16096	2917	1570	192
	4	5,780'	25	196	171	15131	2670	1328	433
	5	**5,812'**	**75**	**521**	**446**	**43251**	**5732**	**677**	**2241**
	6	5,830'	50	216	166	16334	3430	1626	250
	7	5,862'	199	470	271	34896	7473	3976	678
	8	5,925'	25	137	112	11066	1933	702	0
	9	5,952'	60	188	128	14903	2907	835	101
	10	5,983'	30	256	226	20613	4018	978	0
	11	5,998'	35	179	144	15054	2518	358	0
	12	6,024'	50	337	287	22662	5853	3794	1365
	13	**6,040'**	**70**	**900**	**830**	**68487**	**18046**	**2881**	**544**
	14	**6,139'**	**120**	**2291**	**2171**	**175488**	**37963**	**12674**	**2989**
	15	6,148'	140	788	648	56788	14869	5529	1593
	16	6,163'	225	1153	928	84105	18536	9128	3546
	17	**6,171'**	**225**	**2871**	**2646**	**216823**	**61183**	**7917**	**1218**
	18	**6,352'**	**140**	**3417**	**3277**	**57982**	**11755**	**3939**	**680**
	19	6,423'	150	580	430	39431	11753	5142	1654
	20	6,443'	80	707	627	54661	15344	4744	1206
	21	6,471'	150	356	206	24539	5904	3947	1197
	22	6,576'	85	185	100	13556	2574	1810	558
Castlegate	**23**	**6,652'**	**50**	**792**	**742**	**62614**	**14219**	**2030**	**362**
	24	6,662'	150	536	386	40670	9485	2968	523
	25	6,666'	170	486	316	36818	8587	2687	474
	26	**6,697'**	**115**	**531**	**416**	**41436**	**8693**	**2479**	**535**
	27	6,715'	40	267	227	19667	4286	2112	624
	28	6,726'	80	225	145	5738	1057	679	199
	29	6,743'	50	168	118	12330	2374	1553	581
	30	6,747'	50	394	344	31172	6551	1457	255
	31	**6,764'**	**55**	**265**	**210**	**19148**	**4323**	**2162**	**917**
	32	6,796'	55	561	506	41090	9162	4124	1763
Mancos Shale	33	7,022'	130	1545	1415	111112	32327	9403	1668
	34	**7,429'**	**200**	**8012**	**7812**	**462754**	**224374**	**106021**	**8098**
	35	**8,358'**	**285**	**8350**	**8065**	**453779**	**267032**	**77704**	**36632**

NOTE: After the gas increase at 8,358' the background gas remained between ~6,000 and 8,000 units effectively masking any other formation gas increases which were subsequently liberated at lower depths.


Summary of Gas Shows
10000
1000
100
10
1
UNITS
OHIO CREEK CGL
MESAVERDE FM
CASTLEGATE
MANCOS
4,781'
5,613'
5,726'
5,780'
5,812'
5,830'
5,862'
5,925'
5,952'
5,983'
5,998'
6,024'
6,040'
6,139'
6,148'
6,163'
6,171'
6,352'
6,423'
6,443'
6,471'
6,576'
6,652'
6,662'
6,666'
6,697'
6,715'
6,726'
6,743'
6,747'
6,764'
6,796'
7,022'
7,429'
8,358'
Depth of Show
Background Gas
Total Gas Increase

DAILY DRILLING CHRONOLOGY

Wind River Resources Corporation NHC 14-8-15-20

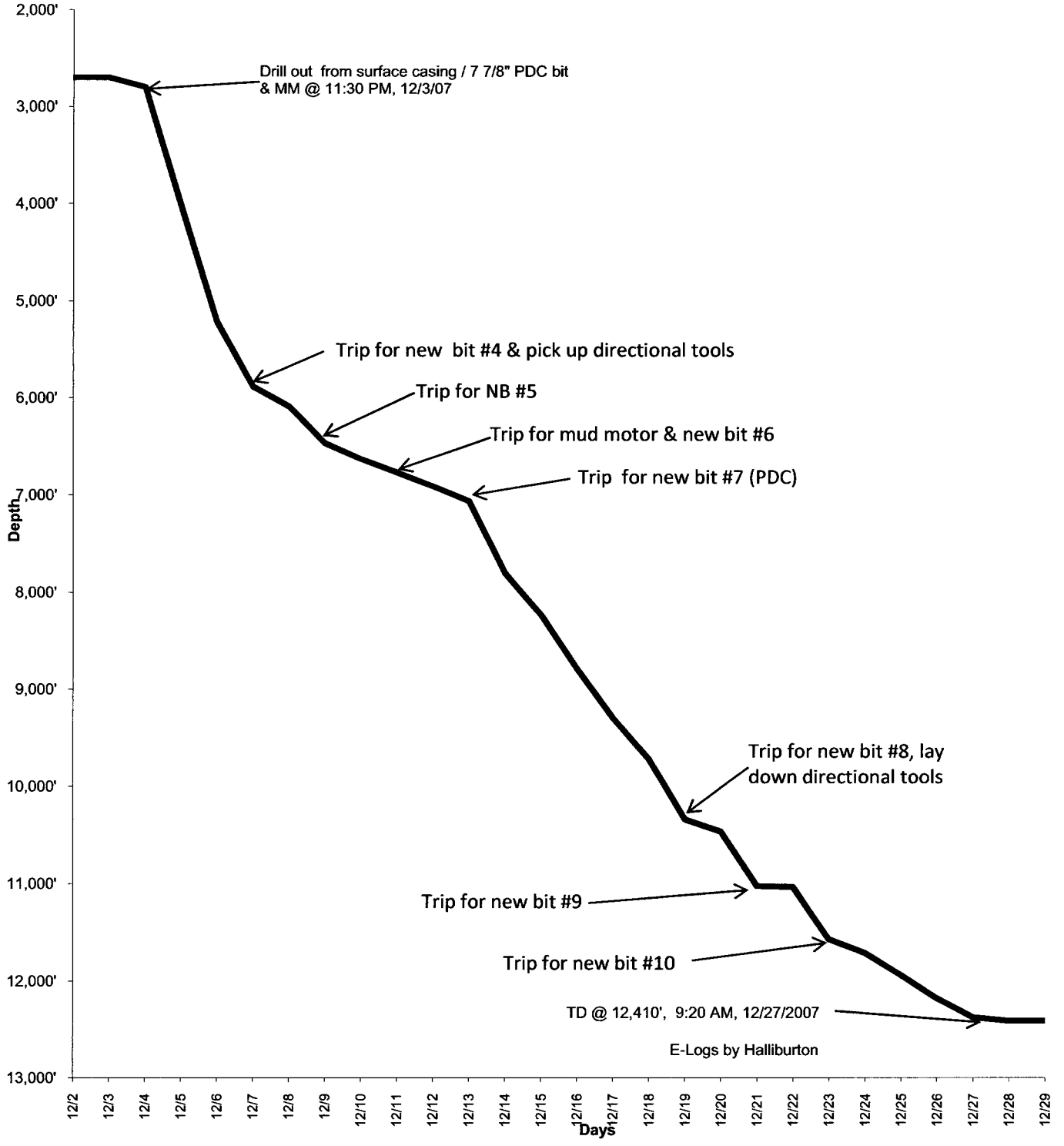
Day	DATE (2007)	6:00 AM DEPTH (MDT)	Footage Previous 24 Hrs.	Activity
1	12/1	2,564'	329'	Drilling to 2700' @ 12:30 PM, condition Mud, short trip 12 stands, condition mud, trip out for surface casing, lay down 8" drill collars, rig up casers, run casing, rig down casers and circulate.
2	12/2	2,700'	136'	Circulate, rig up cementers and cement, plug down @10:00 AM, wait on cement, cut off and weld on well head, test well head to 10,000 pounds, nipple up B.O.P, hook up flair lines, pressure test B.O.P.
3	12/3	2,700'	0'	Test B.O.P., install wear bushing, top off cement, rig up flare lines, level derrick, trip in hole, wash and ream to cement, drill flot and shoe, drill out @ 11:30 PM, drill to 7005' and test new hole to 290 psi, drilling, trip out two stands to pack swivel, drilling.
4	12/4	2,800'	100'	Drilling.
5	12/5	4,026'	1,226'	Drilling.
6	12/6	5,220'	1,194'	Drilling, drill to 5,885, condition hole, trip out to pick up directional tools.
7	12/7	5,885'	665'	Trip out, pick up new bit #4, Weatherford MWD and mud motors, begin directional drilling.
8	12/8	6,088'	203'	Directional drilling.
9	12/9	6,465'	377'	Directional drilling, trip for new bit #5 @ 6,628'. cut drilling line, trip in hole.
10	12/10	6,628'	163'	Wash and ream to botton, directional drilling, trip for mud motor and new bit #6 @ 6,767', trip into hole.
11	12/11	6,767'	139'	Wash and ream to botton, directional drilling.
12	12/12	6,910'	143'	Directional drilling, trip for new bit #7 @ 6,985', change out MWD, directional drilling.
13	12/13	7,060'	150'	Directional drilling.
14	12/14	7,795'	735'	Directional drilling.
15	12/15	8,229'	434'	Directional drilling.
16	12/16	8,784'	555'	Directional drilling.

DAILY DRILLING CHRONOLOGY

Day	DATE (2007)	6:00 AM DEPTH (MDT)	Footage Previous 24 Hrs.	Activity
17	12/17	9,290'	506'	Directional drilling.
18	12/18	9,716'	426'	Directional drilling,
19	12/19	10,339'	623'	Directional drilling, trip for new bit @ 6,463', lay down directional tools, trip in hole.
20	12/20	10,463'	124'	Complete trip, wash and ream to bottom, drilling.
21	12/21	11,025'	562'	Drilling, trip for new bit #9 @11,025', drilling.
22	12/22	11,033'	8'	Drilling.
23	12/23	11,570'	537'	Drilling, trip for bit #10 @ 11711'.
24	12/24	11,711'	141'	Wash to bottom, drilling.
25	12/25	11,937'	226'	Drilling.
26	12/26	12,178'	241'	Drilling,
27	12/27	12,375'	197'	Drilling, TD @ 12,410', 9:20 am, circulate, short trip, circulate, trip out for E-Logs, logging
28	12/28	12,410'	35'	Logging, condition hole for casing
29	12/29	12,410'	0'	Run Casing

PENETRATION RATE / TIME CHART

NHC 14-8-15-20



BIT RECORD

OPERATOR: Wind River Resources Corporation WELL NAME: NHC 14-8-15-20

SFC LOCATION: NE NW Sec 17, T15S, R20E 2,419' FWL & 195' FNL BH LOCATION: SE SW Sec 8, T15S, R20E 82' FSL & 2,526' FWL

Starting Depth:	568'		
Drill Pipe		4.5", 16.6#, g-105	X-H
H.W.D.P		4.5"	30 jts
Drill Collars		6 1/2"	9 jts

Date Drilled 11/26/2007 to 12/27/2007

PUMPS	#1	Emsco	F 800
	#2	G D	PZ-8

CONTRACTOR	True Drilling LLC	
	RIG #	22

NO	SIZE	MAKE	TYPE	JET	SERIAL	DEPTH OUT	FEET	HOURS	FT/HR	ACCUM DRLG HRS	WT 1000 LBS	RPM	VERT DEV	PUMP PRESS	SPM		MUD			DULL COND				FORMATION REMARKS
															1	2	WT	VIS	WL	T	B	G	OTHER	
1	12 1/4	STC	F-15	3 X 15	MX472	1,736'	1,168'	48 1/2	24	48.5	35	40	1	1850	87									Wasatch
2	12 1/4	STC	F-37 Y	3 X 18	PG9638	2,700'	964'	53	18	101 1/2	40	40	1	1780	88									Wasatch
3	7 7/8	STC	MASi 513	6 X 15	JX2402	5,885'	3,185'	69	46	170 1/2	25	55	2	1500	120		9.3	38	11.0					Mesaverde
4	7 7/8	STC	FH28	16 16 22	PD2320	6,628'	743'	50	15	220 1/2	40	55	3	1500	120		9.4	38	11.0	8	2	1/4		Mesaverde
5	7 7/8	STC	FH28	17 16 22	PD2319	6,767'	139'	11	13	231 1/2	40	55	4.5	1500	120		9.5	38	8.0	8	4	1		Castlegate
6	7 7/8	STC	MF4H	16 16 18	PH0520	6,985'	218'	24 1/2	9	256	40	50	5	1725	120		9.5	40	8.0	2	1	1/8		Mancos
7	7 7/8	STC	MASi 513	3X15 2X18	JX5513	10,463'	3,478'	151 1/2	23	407 1/2	20	50	6.4	1700	120		9.5	40	8.0	3	-	I		Mancos
8	7 7/8	STC	MASi 513	5X16	JK3791	11,025'	562'	20 1/2	27	428	20	50	2	1700	120		9.6	38	8.0	6	-	I	groved	Cedar Mtn
9	7 7/8	STC	Mi 616	6X18	JX8990	11,711'	686'	42 1/2	16	470 1/2	20	54	3.5	1700	120		9.3	42	9.0	2	-	I		Mprrison
10	7 7/8	STC	Mi 613	6X18	JX9238	12,410'	699'	71	10	541 1/2	25	51	3	1900	120		9.5	44	8.5					Wingate

541.5 Total Rotating Hours

DRILLING PARAMETERS

Operator: Wind River Resources Corporation Well Name: NHC 14-8-15-20

DRILLING PARAMETERS				
DEPTH	ROTARY TABLE SPEED	WT. ON BIT (1000 lbs)	PUMP PRESSURE	STROKES PER MINUTE
1,007'	40	35	1850	90
1,573'	40	35	1850	93
1,913'	41	35	1750	92
2,072'	42	35	1800	92
2,564'	40	40	1700	94
2,789'	55	10	1100	120
3,730'	55	20	1100	120
4,915'	55	18	1400	120
5,705'	55	25	1500	120
5,963'	55	35	1450	120
6,326'	55	35	1475	120
6,628'	54	38	1560	120
6,767'	51	38	1600	120
6,858'	51	35	1750	120
6,910'	55	40	1790	120
7,060'	54	12	1350	120
7,566'	55	10	1550	120
8,105'	55	15	1525	120
8,570'	50	15	1800	120
9,160'	45	15	1700	120
9,542'	50	20	1700	115
10,185'	50	15	1700	120
10,463'	50	15	1950	120
10,950'	51	20	1800	120
11,033'	51	25	1650	120
11,476'	54	24	1700	120
11,853'	51	22	1850	120
12,100'	55	26	1750	120
12,305'	51	32	1900	120

DAILY DRILLING MUD REPORT

Operator: Wind River Resources Corporation

Well Name: NHC 14-8-15-20

Mud-up Depth: 2,700' Mud Type: LSND Mustang Drilling Fluids

Report #	1	2	3	4	5	6	7	8	9	10
Date, 2007	11/24	11/25	11/26	11/27	11/28	11/29	11/30	12/1	12/3	12/4
Depth (ft) TVD		552'	771'	1,325'	1,736'	1,853'	2,325'	2,679'	2,700'	2,958'
Weight (lbs/gal.)	Pre Spud	8.8	8.7	8.7	8.8	9.1	9.1	9.0	9.3	9.0
Funnel Viscosity (Sec/qt. API)		41	37	38	41	38	36	40	44	41.0
Plastic Viscosity cp		13	10	8	11	10	8	11	12	11.0
Yield Point (lb/100 ft^2.)		5	7	7	10	8	8	12	10	7.0
Gel Strength 10 sec/10 min.		1/4	2/8	2/6	4/14	3/8	2/6	4/14	2/8	5/12
pH (meter)		10.5	10.5	11.0	10.0	9.9	9.2	9.8	9.0	11.5
Filtrate API (ml^3/30 min)		12	11.8	15.0	14.0	13.8	12.8	12.4	12.8	20.0
Cake Thickness 32nd		2	2	2	2	2	2	2	2	3.0
Alkalinity, Mud (Pm)		1.1	1.2	1.0	0.9	0.9	0.7	0.8	0.7	2.3
Alkalinity, Filtrate (Pf/Mf)		.65/1.9	.6/1.5	.5/1.3	3/12	.4/1.2	.2/1.8	.35/1.5	.2/1.7	.75/1.4
Chloride Content,(mg/L)		2400	1200	900	900	800	800	900	800	800
Total Hardness, (mg/L)		40	40	40	40	40	20	20	40	40.0
Sand Content (% by Vol.)		0.25	0.25	0.25	tr	tr	tr	tr	tr	tr
Retort Solids (% by Vol.)		3.0	3.0	3.0	3.0	5.0	5.0	5.0	7.0	4.0
Retort Liquid (% Vol.) Oil/Wtr		97.0	97.0	97.0	97.0	95.0	95.0	95.0	93.0	96.0
ECD		8.925	8.875	8.875	9.050	9.300	9.300	9.300	9.350	9.175

Report #	11	12	13	14	15	16	17	18	19	20
Date, 2007	12/5	12/6	12/7	12/8	12/9	12/10	12/11	12/12	12/13	12/14
Depth (ft) TVD	4,242'	5,344'	5,885'	6,124'	6,546'	6,655'	6,767'	6,972'	7,232'	7,919'
Weight (lbs/gal.)	9.2	9.3	9.5	9.3	9.4	9.5+	9.6	9.4+	9.4	9.3
Funnel Viscosity (Sec/qt. API)	36	36	39	35	38	40	38	38	40	40
Plastic Viscosity cp	11	11	13	10	13	12	13	12	12	12
Yield Point (lb/100 ft^2.)	4	6	8	4	6	10	6	10	10	8
Gel Strength 10 sec/10 min.	1/4	1/6	2/8	1/4	2/8	2/8	2/6	2/6	2/6	1/4
pH (meter)	10.5	10.1	10.2	9.5	10.5	10.0	10.0	10.1	10.3	10.0
Filtrate API (ml^3/30 min)	11.0	11.8	10.4	10.4	11.0	8.0	8.0	8.0	8.0	8.4
Cake Thickness 32nd	2	2	2	2	2	2	2	2	2	2
Alkalinity, Mud (Pm)	1.3	1.2	1	1.0	1.2	0.9	0.9	1.0	1.0	0.9
Alkalinity, Filtrate (Pf/Mf)	.4/1.3	.35/1.2	.25/1.2	.4/1.3	.5/1.6	.45/1.4	.3/1.4	.4/1.6	.4/1.8	.4/1.8
Chloride Content,(mg/L)	800	600	600	700	700	900	900	700	800	800
Total Hardness, (mg/L)	30	20	20	20	30	30	30	30	30	30
Sand Content (% by Vol.)	tr	tr	tr	tr	tr	tr	tr	tr	tr	TR
Retort Solids (% by Vol.)	5.0	6.0	7.0	6.0	6.0	7.0	8.0	6.0	6.0	5.0
Retort Liquid (% Vol.) Oil/Wtr	95.0	94.0	93.0	94.0	94.0	93.0	92.0	9.4	94.0	95.0
ECD	9.3	9.45	9.7	9.400	9.550	9.750	9.750	9.650	9.650	9.500

DAILY DRILLING MUD REPORT

Operator: Wind River Resources Corporation

Well Name: NHC 14-8-15-20

Mud-up Depth: 2,700' Mud Type: LSND Mustang Drilling Fluids

Report #	21	22	23	24	25	26	27	28	29	30
Date, 2007	12/15	12/16	12/17	12/18	12/19	12/20	12/22	12/23	12/24	12/26
Depth (ft) TVD	8,292'	8,890'	9,315'	9,839'	10,390'	10,641'	11,309'	11,605'	11,734'	12,214'
Weight (lbs/gal.)	9.5	9.4+	9.5	9.5+	9.5+	9.6	9.4+	9.3+	9.5+	9.5+
Funnel Viscosity (Sec/qt. API)	41.0	45	42	37	39	38	37	42	46	42.0
Plastic Viscosity cp	15.0	18	16	14	15	14	12	16	29	18.0
Yield Point (lb/100 ft^2.)	7.0	10	9	7	8	8	5	7	8	9.0
Gel Strength 10 sec/10 min.	1/5	2/12	2/10	1/5	2/6	2/6	1/5	2/6	2/6	2/5
pH (meter)	9.8	10.5	10	9.5	10.0	9.5	10.3	10.0	10.4	10.0
Filtrate API (ml^3/30 min)	8.0	9	8.4	8.0	8.4	8.0	8.4	9.0	9.0	8.4
Cake Thickness 32nd	2.0	2	2	2	2	2	2	2	2	2.0
Alkalinity, Mud (Pm)	0.8	1	0.8	0.9	1.0	0.7	0.9	0.7	1.1	1.0
Alkalinity, Filtrate (Pf/Mf)	.2/1.6	.5/2.0	.3/1.6	.25/1.4	.35/1.6	.25/1.3	.4/1.7	.3/1.6	.4/1.6	.25/1.4
Chloride Content,(mg/L)	800	800	800	800	700	700	700	900	800	800
Total Hardness, (mg/L)	30.0	40	40	40	40	40	40	40	40	40.0
Sand Content (% by Vol.)	tr	25	0.25	0.25	tr	tr	tr	tr	0.25	0.25
Retort Solids (% by Vol.)	7.0	6.0	7.0	7.0	7.0	8.0	7.0	6.0	8.0	8.0
Retort Liquid (% Vol.) Oil/Wtr	93.0	94.0	93.0	83.0	93.0	92.0	93.0	94.0	92.0	92.0
ECD	9.7	9.65	9.725	9.675	9.700	9.800	9.525	9.475	9.700	9.725

Report #	21									
Date, 2007	12/27									
Depth (ft) TVD	12,400'									
Weight (lbs/gal.)	9.6									
Funnel Viscosity (Sec/qt. API)	49.0									
Plastic Viscosity cp	23.0									
Yield Point (lb/100 ft^2.)	12.0									
Gel Strength 10 sec/10 min.	2/12									
pH (meter)	10.0									
Filtrate API (ml^3/30 min)	8.0									
Cake Thickness 32nd	2.0									
Alkalinity, Mud (Pm)	1.0									
Alkalinity, Filtrate (Pf/Mf)	.6/2.0									
Chloride Content,(mg/L)	1500									
Total Hardness, (mg/L)	40.0									
Sand Content (% by Vol.)	0.3									
Retort Solids (% by Vol.)	8.5									
Retort Liquid (% Vol.) Oil/Wtr	91.5									
ECD	9.9									

DIRECTIONAL SURVEYS

Client : Wind River Resources
Well Name : NORTH HILL CREEK 14-8-15-20 Date : 12/19/2007
Location : NE NW Sec 17 T15S R20E
KB Elevation : 7259 Gr Elevation :7243.00

Vertical Section Calculated Along Azimuth 4.73°

MD	Inc	Azi	TVD	North	East	V'Sect	D'Leg	Build	Turn
ft	deg	deg	ft	ft	ft	ft	°/100	°/100	°/100
0.00	0.00	4.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2815.00	0.81	3.69	2814.91	19.86	1.28	19.89	0.03	0.03	-0.04
3465.00	1.44	333.81	3464.78	31.77	-2.03	31.49	0.13	0.10	-4.60
3651.00	1.63	340.94	3650.72	36.37	-3.92	35.92	0.14	0.10	3.83
4297.00	1.38	30.69	4296.52	51.74	-2.95	51.32	0.20	-0.04	7.70
4741.00	1.44	46.81	4740.39	60.16	3.84	60.27	0.09	0.01	3.63
5208.00	2.50	89.94	5207.13	64.19	18.31	65.48	0.38	0.23	9.24
5610.00	3.06	95.81	5608.65	63.11	37.75	66.01	0.16	0.14	1.46
5854.00	2.96	98.11	5852.32	61.56	50.47	65.51	0.06	-0.04	0.94
5914.00	2.89	92.38	5912.24	61.28	53.51	65.48	0.50	-0.12	-9.55
5975.00	2.63	79.19	5973.17	61.48	56.42	65.92	1.12	-0.43	-21.62
6037.00	2.25	56.94	6035.11	62.41	58.84	67.05	1.63	-0.61	-35.89
6099.00	2.31	36.56	6097.06	64.08	60.60	68.85	1.30	0.10	-32.87
6162.00	2.75	20.52	6160.00	66.51	61.89	71.39	1.32	0.70	-25.46
6223.00	3.38	11.94	6220.92	69.64	62.77	74.58	1.27	1.03	-14.07
6285.00	3.94	6.31	6282.79	73.55	63.39	78.52	1.07	0.90	-9.08
6346.00	4.63	6.81	6343.62	78.07	63.91	83.08	1.13	1.13	0.82
6408.00	4.81	15.56	6405.41	83.06	64.90	88.13	1.20	0.29	14.11
6469.00	3.63	22.31	6466.24	87.31	66.32	92.48	2.10	-1.93	11.07
6532.00	3.56	19.31	6529.12	91.00	67.73	96.28	0.32	-0.11	-4.76
6595.00	3.94	14.69	6591.99	94.94	68.92	100.30	0.77	0.60	-7.33
6657.00	3.80	7.36	6653.84	99.04	69.72	104.45	0.83	-0.23	-11.82
6719.00	4.63	358.19	6715.68	103.58	69.91	108.99	1.72	1.34	-14.79
6781.00	4.81	351.56	6777.47	108.65	69.45	114.01	0.93	0.29	-10.69
6842.00	5.25	352.44	6838.23	113.95	68.71	119.23	0.73	0.72	1.44
6904.00	5.19	348.19	6899.97	119.51	67.76	124.69	0.63	-0.10	-6.85
6973.00	5.06	359.06	6968.70	125.60	67.07	130.71	1.42	-0.19	15.75
7033.00	5.50	351.81	7028.45	131.10	66.62	136.14	1.33	0.73	-12.08
7095.00	6.13	343.56	7090.13	137.21	65.26	142.13	1.69	1.02	-13.31
7157.00	5.97	341.96	7151.78	143.45	63.32	148.18	0.37	-0.26	-2.58
7219.00	5.56	343.94	7213.47	149.40	61.49	153.97	0.73	-0.66	3.19
7282.00	5.50	348.19	7276.18	155.29	60.03	159.71	0.66	-0.10	6.75
7345.00	5.19	350.94	7338.90	161.06	58.96	165.37	0.64	-0.49	4.37
7404.00	4.81	354.46	7397.68	166.16	58.30	170.40	0.83	-0.64	5.97
7466.00	5.38	352.56	7459.43	171.63	57.68	175.80	0.96	0.92	-3.06
7527.00	5.81	350.06	7520.14	177.50	56.77	181.58	0.81	0.70	-4.10
7589.00	5.75	349.31	7581.83	183.65	55.66	187.61	0.16	-0.10	-1.21
7653.00	5.38	351.69	7645.53	189.77	54.63	193.63	0.68	-0.58	3.72
7714.00	5.19	356.44	7706.27	195.35	54.04	199.14	0.78	-0.31	7.79
7776.00	4.44	353.19	7768.05	200.53	53.58	204.27	1.29	-1.21	-5.24
7838.00	4.25	351.81	7829.87	205.19	52.97	208.86	0.35	-0.31	-2.23
7899.00	4.50	354.19	7890.69	209.81	52.41	213.41	0.51	0.41	3.90
7962.00	4.63	358.69	7953.49	214.81	52.10	218.37	0.60	0.21	7.14
8024.00	5.06	358.44	8015.27	220.04	51.97	223.58	0.69	0.69	-0.40
8086.00	5.06	356.06	8077.03	225.50	51.71	229.00	0.34	0.00	-3.84

8149.00	5.44	352.44	8139.76	231.24	51.12	234.66	0.80	0.60	-5.75
8210.00	6.19	346.19	8200.45	237.30	49.96	240.61	1.61	1.23	-10.25
8272.00	6.38	344.31	8262.08	243.86	48.23	247.00	0.45	0.31	-3.03
8335.00	6.31	347.81	8324.69	250.61	46.55	253.60	0.62	-0.11	5.56
8396.00	6.13	351.16	8385.33	257.11	45.34	259.97	0.66	-0.30	5.49
8457.00	6.00	353.81	8445.99	263.50	44.50	266.27	0.51	-0.21	4.34
8517.00	5.44	359.69	8505.69	269.46	44.14	272.18	1.35	-0.93	9.80
8579.00	4.75	7.06	8567.45	274.94	44.44	277.67	1.53	-1.11	11.89
8641.00	4.13	3.19	8629.26	279.72	44.88	282.47	1.11	-1.00	-6.24
8703.00	4.06	2.56	8691.10	284.14	45.10	286.89	0.13	-0.11	-1.02
8764.00	4.06	357.06	8751.95	288.46	45.09	291.19	0.64	0.00	-9.02
8826.00	4.13	356.19	8813.79	292.88	44.83	295.57	0.15	0.11	-1.40
8889.00	4.00	357.31	8876.63	297.33	44.58	300.00	0.24	-0.21	1.78
8948.00	4.13	3.06	8935.49	301.51	44.59	304.16	0.72	0.22	9.75
9010.00	4.31	0.19	8997.32	306.07	44.72	308.72	0.45	0.29	-4.63
9073.00	3.63	353.44	9060.17	310.42	44.50	313.03	1.31	-1.08	-10.71
9104.00	3.31	358.56	9091.11	312.29	44.36	314.88	1.44	-1.03	16.52
9136.00	3.13	5.81	9123.06	314.08	44.43	316.68	1.39	-0.56	22.66
9198.00	2.94	12.94	9184.97	317.31	44.96	319.94	0.68	-0.31	11.50
9260.00	3.00	14.06	9246.89	320.44	45.71	323.12	0.13	0.10	1.81
9323.00	3.19	12.69	9309.80	323.75	46.49	326.48	0.32	0.30	-2.17
9385.00	3.50	8.31	9371.69	327.30	47.15	330.08	0.65	0.50	-7.06
9448.00	3.13	357.19	9434.59	330.92	47.34	333.70	1.17	-0.59	-17.65
9510.00	2.50	355.94	9496.51	333.96	47.16	336.71	1.02	-1.02	-2.02
9573.00	2.19	357.56	9559.46	336.54	47.01	339.27	0.50	-0.49	2.57
9635.00	2.19	11.31	9621.41	338.88	47.19	341.62	0.85	0.00	22.18
9697.00	1.81	8.19	9683.38	341.01	47.57	343.77	0.64	-0.61	-5.03
9760.00	1.56	10.44	9746.35	342.84	47.86	345.62	0.41	-0.40	3.57
9820.00	1.63	32.81	9806.33	344.36	48.47	347.19	1.04	0.12	37.28
9882.00	1.25	57.19	9868.31	345.47	49.52	348.38	1.15	-0.61	39.32
9944.00	1.38	67.19	9930.29	346.12	50.78	349.13	0.42	0.21	16.13
10006.00	1.44	74.94	9992.27	346.62	52.22	349.74	0.32	0.10	12.50
10069.00	1.50	78.06	10055.25	346.99	53.79	350.25	0.16	0.10	4.95
10133.00	1.94	86.56	10119.22	347.23	55.69	350.64	0.79	0.69	13.28
10195.00	2.19	83.31	10181.18	347.43	57.91	351.02	0.45	0.40	-5.24
10258.00	2.44	79.69	10244.13	347.81	60.43	351.61	0.46	0.40	-5.75
10320.00	2.63	78.81	10306.07	348.32	63.12	352.34	0.31	0.31	-1.42
10381.00	2.38	80.91	10367.01	348.80	65.75	353.03	0.44	-0.41	3.44
10413.00	2.12	81.69	10398.99	348.99	66.99	353.32	0.82	-0.81	2.44
10463.00	1.71	82.91	10448.96	349.21	68.64	353.68	0.82	-0.82	2.44
10688.00	2.03	82.63	10673.84	350.14	75.93	355.21	0.14	0.14	-0.13
10788.00	2.16	82.54	10773.77	350.61	79.56	355.98	0.13	0.13	-0.09
10901.00	2.34	82.43	10886.69	351.19	83.96	356.92	0.16	0.16	-0.09
11019.00	2.51	82.34	11004.58	351.85	88.90	357.98	0.14	0.14	-0.07
11028.00	2.52	82.34	11013.57	351.90	89.29	358.07	0.14	0.14	-0.07
11370.00	3.01	82.14	11355.17	354.14	105.64	361.64	0.14	0.14	-0.06
11668.00	3.44	82.02	11652.70	356.45	122.25	365.31	0.14	0.14	-0.04
11703.00	3.49	82.00	11687.64	356.74	124.34	365.78	0.14	0.14	-0.04
11711.00	3.50	82.00	11695.62	356.81	124.82	365.89	0.14	0.14	-0.04
11768.00	3.48	82.00	11752.51	357.29	128.26	366.65	0.04	-0.04	0.00
11783.00	3.47	82.00	11767.49	357.42	129.16	366.85	0.04	-0.04	0.00
12060.00	3.35	82.00	12044.00	359.71	145.47	370.48	0.04	-0.04	0.00

12182.00	3.30	82.00	12165.79	360.70	152.48	372.04	0.04	-0.04	0.00
12257.00	3.27	82.00	12240.67	361.29	156.73	372.99	0.04	-0.04	0.00
12387.00	2.54	235.70	12370.60	360.18	158.01	371.99	4.35	-0.56	118.23

Bottom Hole Closure 393.32ft Along Azimuth 23.69°

SAMPLE DESCRIPTIONS

Begin drilling ~ 5:00 AM, 10/26/07 from pre-drilled surface hole @ 552', surface casing set @ 2,685'.

SAMPLE EVALUATION BEGAN @ 2,700' IN THE WASATCH FM. LAGGED SAMPLES WERE CAUGHT BY RIG PERSONNEL AND DESCRIBED WHILE WET. ALL TOPS LISTED ARE LOG TOPS. SAMPLE DESCRIPTION INTERVALS ARE BASED ON DRILLERS DEPTHS.

Depth (ft)	Descriptions
2700-2750	CLAYSTONE; light brown to red brown, firm, platy, commonly with very fine silty to gritty texture, trace varigated with light green waxy CLAYSTONE.
2750-2800	CLAYSTONE; moderately orange pink, soft, platy. subwaxy, predominantly silty in part. SILTSTONE; pale pink to white, soft to firm, very fine, commonly assoc with moderately orange pink CLAYSTONE, tight.
2800-2850	SANDSTONE; white to off white, friable to firm, fine to lower fine grained, subangular, moderately well sorted, well consolidated, spotty white silica matrix, trace red to dark gray to black mineral
2850-2900	SANDSTONE; white to clear, friable to firm, fine to lower medium grained, predominantly subangular, moderately well sorted, abundant loose clear, subangular quartz grains, poor visible porosity in well consolidated clusters, inferred fair porosity from abundant loose grains, no fluorescence stain odor or cut
2900-2950	CLAYSTONE; varigated light brown to red orange, predominantly with mottled texture, scattered green, waxy CLAYSTONE inclusion,
2950-3000	SANDSTONE; white, friable, fine to lower medium grained, subangular to sub rounded, poor consolidated, moderately well sorted, spotty white calcareous matrix, trace possible glauconite, occasionally black mineral inclusion, commonly with fine disseminated pyrite, occasionally poor intergranular porosity, no fluorescence stain odor or cut.
3000-3050	SANDSTONE; white friable, continued as above, abundant light gray, firm to hard, blocky, fine to very fine grained, well consolidated, abundant disseminated pyrite, silica, very tight throughout.
3050-3100	CLAYSTONE; red orange to light brown to pale orange, firm to soft, occasionally silty to sandy in part, occasionally varigated with light green, waxy CLAYSTONE, rarely trace loose Coal.
3100-3150	SANDSTONE; white to off white, occasionally very light tan, friable, upper medium to no grained, subangular to angular, poor sorted, moderately well consolidated, black mineral inclusion, calcareous in part, abundant loose angular to subangular grains, predominantly clear, occasionally frost in part, trace fair intrusive grained porosity, no fluorescence stain odor or cut.
3150-3200	CLAYSTONE; Mod orange pink to red brown to pale orange, occasionally white, firm, platy, occasionally varigated, trace light green, subwaxy, trace silty in part
3200-3250	CLAYSTONE; red brown to pale orange brown to pale purple, firm to soft, platy, occasionally splintery, occasionally varigated, trace pale green, subwaxy, occasionally silty in part.
3250-3300	SANDSTONE; white to clear, predominantly unconsolidated, subangular to angular, medium to lower medium grained, quartz grains, trace black to green mineral inclusion, trace poor consolidated, slightly calcareous matrix, poor visible porosity, no fluorescence stain odor or cut. CLAYSTONE; continued as above.
3300-3350	SANDSTONE; white to off white, friable, fine to medium grained, poor consolidated, poor sorted, subangular, trace very pale green mineral inclusion, occasionally spotty milky white calcareous matrix, abundant loose quartz grains, no to poor visible porosity, NFSAC
3350-3400	CLAYSTONE; varicolored. pale pink to light brown orange, to very pale green, firm to soft, platy, occasionally subwaxy texture, trace silty to sandy, occasionally varigated.
3400-3450	CLAYSTONE; light pink gray, to very pale brown to very poor pink, firm to soft, commonly varigated, commonly grading to SILTSTONE/SANDSTONE. SANDSTONE; very light brown to pink gray, firm, fine grained, subangular, abundant clay fill, occasionally glauconite and black mineral inclusion, slightly calcareous, tight.
3450-3500	SANDSTONE; very pale brownish gray, to off white to light brown, firm, fine grained, occasionally hard, blocky, well sorted and consolidated, abundant gray to green to orange, rarely black mineral inclusion, commonly calcareous in part, tight throughout. CLAYSTONE; red orange, soft, blocky to platy, occasionally very pale green, subwaxy, occasionally varigated.

SAMPLE DESCRIPTIONS

Depth (ft)	Descriptions
3500-3550	CLAYSTONE; light brown to red orange to pale green to gray green, soft to firm, blocky, commonly varigated in part, trace calcareous. SANDSTONE; continued as above, commonly very fine grained to silty, silica in part, tight throughout.
3550-3600	CLAYSTONE; red orange to light orange brown, firm, blocky, occasionally very fine silty in part, trace light green waxy, trace varigated, occasionally calcareous in part, SANDSTONE; pale red pink, to light gray to light gray brown, firm to hard, fine grained, subangular to angular, moderately well sorted, very well consolidated, abundant varicolored red to green to dark gray to black mineral inclusion, calcareous in part, tight throughout
3600-3650	SANDSTONE; light gray brown to light gray to white, fine to very fine grained, subangular, well sorted, well consolidated, abundant fine black, occasionally green to red mineral inclusion, occasionally silty in part, trace slightly calcareous, tight throughout. CLAYSTONE; red orange, continued as above., occasionally varigated with light green.
3650-3700	SANDSTONE; continued as above, increase grained size to upper fine grained, subangular to subrounded, no to poor visible porosity, no fluorescence stain odor or cut. CLAYSTONE; red orange to light brown, firm to soft, blocky, occasionally very fine silty, trace slightly calcareous, trace varigated with pale green, waxy claystone.
3700-3750	CLAYSTONE; red brown to red orange, occasionally pale green, soft to firm, blocky to platy, occasionally fine gritty texture, occasionally subwaxy, trace varigated.
3750-3800	SANDSTONE; off white to white to dirty brown, friable to firm, fine to upper fine grained, subangular to subrounded, moderately well sorted, well consolidated, spotty white calcareous matrix, commonly with medium grained black to red to green mineral inclusion, no to poor visible porosity, no fluorescence stain odor or cut. CLAYSTONE; red orange continued as above.
3800-3850	CLAYSTONE; red orange to red brown to pale pink, firm to soft, platy, fine gritty to silty texture, commonly subwaxy, trace varigated, SANDSTONE; light gray, firm to hard, fine grained to silty, occasionally micro black mineral inclusion, silica, tight.
3850-3900	CLAYSTONE; moderately red orange to moderately red brown, firm to soft, blocky, occasionally very fine silty, trace floating well rounded quartz grains, rarely varigated.
3900-3950	SANDSTONE; white to very pale green, friable, medium to upper medium grained, subrounded to subangular, abundant upper medium grained black angular carbonaceous inclusion, commonly with medium grained orange to green inclusion, poor intergranular porosity, no fluorescence stain odor or cut
3950-4000	CLAYSTONE; red brown to dark red brown, firm to soft, blocky, trace light green, silty in part, rarely varigated. SANDSTONE; continued as above.
4000-4050	SANDSTONE; white to light gray to light brown, friable to firm, medium to upper medium grained, subrounded to subangular, moderately well to poor sorted, abundant coarse grained black and pale orange mineral inclusion, possible carbonaceous in part, spotty white calcareous matrix, poor intergranular porosity, no fluorescence stain odor or cut. CLAYSTONE; red orange, continued as above.
4050-4100	SANDSTONE; light gray to gray, very fine grained to silty, friable to firm, subangular to subrounded, commonly with micro black and red mineral inclusion, predominantly calcareous, tight throughout no fluorescence stain odor or cut. CLAYSTONE; red orange, firm, blocky occasionally pale green, subwaxy, trace varigated.
4100-4150	SANDSTONE; light gray to light brown, friable to firm, commonly fine grained to silty continued as above, abundant medium grained, friable, poor sorted, calcareous, with coarse black and red orange mineral inclusions trace pyrite, trace dark gray shale partings, no to poor visible porosity no fluorescence stain odor or cut. CLAYSTONE; continued as above.
4150-4200	SANDSTONE; off white to light gray, firm, very fine grained to silty, micro black to red to orange mineral inclusion, predominantly very calcareous tight throughout. CLAYSTONE; green to white to red orange, occasionally silty calcareous, trace varigated.
4200-4250	SANDSTONE; continued as above, occasionally very pale green, occasionally medium to upper medium grained with coarse black mineral inclusion, no to poor visible porosity, predominantly calcareous, no fluorescence stain odor or cut.

SAMPLE DESCRIPTIONS

Depth (ft)	Descriptions
4250-4300	CLAYSTONE; moderately to dark red orange, occasionally yellow to yellow green, soft, platy to blocky, commonly calcareous in part, trace white very calcareous grading to argillaceous LIMESTONE.
4300-4350	LIMESTONE; white to very pale brown, firm, blocky, fine crystalline, trace very fine sandy, tight throughout. CLAYSTONE; varicolored orange to yellow green to brown to pale green, trace very dark red brown, blocky, trace varigated.
4350-4400	SANDSTONE; white to off white, firm to friable, medium to upper fine grained, subrounded to subangular, moderately well sorted, well consolidated, abundant coarse to medium grained black mineral inclusion, calcareous matrix, no visible porosity, no fluorescence stain odor or cut. CLAYSTONE; red orange to pale orange to light green, soft, blocky, occasionally varigated, predominantly calcareous grading to argillaceous LIMESTONE.
4400-4450	CLAYSTONE; varicolored, yellow green to yellow to light orange to moderately red orange, firm, blocky to subblocky, commonly very pale green, subwaxy, occasionally varigated. LIMESTONE; off white to light gray to light brown, firm to hard, blocky, fine crystalline, tight.
4450-4500	CLAYSTONE; varicolored, pale green to bright yellow to red orange, firm, subblocky, subwaxy, occasionally varigated. LIMESTONE; white to cream, hard, blocky, fine to microcrystalline, commonly dense tight throughout.
4500-4550	CLAYSTONE; pale green to red brown to dark red brown, firm, blocky, occasionally silty to sandy with black mineral inclusions, commonly varigated. LIMESTONE; continued as above
4550-4600	CLAYSTONE; red brown to moderate red orange, firm, subblocky, abundant pale green, commonly silty to sandy in part, calcareous.
4600-4650	CLAYSTONE; medium red orange to dark red brown, commonly pale green to gray green, soft, platy to subblocky, calcareous throughout, occasionally silty in part. LIMESTONE; white to very light tan, hard, blocky, fine to microcrystalline, trace soft chalky, tight throughout.
4650-4700	SANDSTONE; medium gray to gray, firm, fine grained to silty, well consolidated and sorted, abundant fine to micro black carbonaceous inclusion, trace pyritic, slightly calcareous, tight, no fluorescence stain odor or cut. CLAYSTONE; pale green, continued as above. SHALE; dark gray, platy subfissile.
4700-4750	SANDSTONE; white to light gray, firm to friable, medium to upper fine grained, subangular to subrounded, abundant black mineral inclusion, spotty white calcareous matrix, no to poor visible porosity, no fluorescence stain odor or cut. CLAYSTONE; bright yellow to yellow green to pale green, soft, subblocky, trace varigated.

OHIO CREEK CONGLOMERATE 4,782' (+2,477')

4750-4800	CONGLOMERATE; CHERT varicolored bright orange to smoky gray to black to white to yellow to gray, sharp, semi opaque to opaque, trace varigated, trace well rounded pebble fragments. CLAYSTONE; varicolored continued as above.

MESAVERDE 4,798' (+2,461')

4800-4850	SANDSTONE; light gray to off white, firm, fine to very fine grained, subangular, abundant micro to fine black mineral inclusion, well sorted and consolidated, non calcareous, tight, no fluorescence stain odor or cut. SHALE; gray to gray green to dark gray, soft, subblocky to platy, consolidated pale green CLAYSTONE.
4850-4900	SANDSTONE; white, friable to firm, medium to upper medium grained, subrounded to subangular, moderately well sorted and consolidated, abundant coarse black carbonaceous inclusion, silica in part, trace black SHALE partings, occasionally light gray argillaceous, silty, tight to poor visible porosity, no fluorescence stain odor or cut. SHALE; dark gray to dark brown, firm, platy, commonly with fine gritty texture.

SAMPLE DESCRIPTIONS

Depth (ft)	Descriptions
4900-4950	SANDSTONE; white to off white, firm, upper fine to lower medium grained, subangular to sub rounded, well consolidated and sorted, abundant fine black mineral inclusion, trace green to red orange inclusion, occasionally black carbonaceous partings, silica matrix, abundant clear medium grained, unconsolidated quartz grains, no visible porosity, no fluorescence stain odor or cut.
4950-5000	SHALE; medium gray, fair, subblocky, commonly fine gritty to silty texture, occasionally thin black carbonaceous stringers.
5000-5050	SHALE; medium gray to dark gray, firm, subblocky, predominantly silty in part, commonly with fine black carbonaceous flakes, occasionally black carbonaceous stringers and partings, trace light to pale green, waxy.
5050-5100	SANDSTONE; white to off white, firm to hard, upper fine grained, subrounded to subangular, black mineral inclusion, silica in part, tight throughout. SHALE; medium gray, continued as above, abundant very silty, carbonaceous in part.
5100-5150	SHALE; medium to dark gray, soft, blocky, abundant varicolored pale green to light pink to light purple to orange, soft, subwaxy, occasionally varigated.
5150-5200	SHALE; dark gray to dark brown, firm, blocky to platy, commonly with fine gritty texture, occasionally black carbonaceous stringers and partings, occasionally varicolored continued as above, occasionally loose COAL; black vitreous.
5200-5250	SHALE; light brown to gray to dark gray, soft to firm, subblocky, commonly very fine silty occasionally sandy in part, occasionally black carbonaceous. SANDSTONE; light gray, hard, very fine grained to silty, well consolidated, commonly with micro black mineral inclusion, occasionally black carbonaceous SHALE stringers, predominantly silica, tight throughout. COAL; trace only
5250-5300	SANDSTONE; white to clear, predominantly unconsolidated grains, subrounded to subangular, medium to upper medium grained, inferred porosity, no fluorescence stain odor or cut
5300-5350	SANDSTONE; white to light gray, friable to firm, very fine grained to silty, moderately well sorted, well consolidated, occasionally thin white calcareous stringers, occasionally medium grained subangular with coarse black mineral inclusion, silica, no to poor visible porosity, no fluorescence stain odor or cut. SHALE; gray to medium gray to dark gray to black, soft, occasionally very fine silty in part, occasionally carbonaceous. Coal; trace only, continued as above.
5350-5400	SANDSTONE; white to light gray, friable to firm, upper medium to fine grained, subangular to subrounded, moderately well to poor sorted, moderately well consolidated, commonly with coarse black carbonaceous inclusion, occasionally black SHALE parting and stringers, commonly dirty gray, silty, tight throughout. SHALE; continued as above.
5400-5450	SANDSTONE; light gray, firm to hard, very fine grained to silty, commonly with micro black mineral inclusion, siliceous matrix, very tight, trace loose COAL. SHALE; dark brown, subblocky, subfissile, commonly carbonaceous in part.
5450-5500	SHALE; dark gray to dark brown, soft, subblocky, occasionally subfissile, commonly with thin black carbonaceous and Coal stringers, occasionally fine gritty to silty. SHALE; continued as above, commonly upper medium grained, poor sorted, siliceous, no visible porosity.
5500-5550	SHALE; dark gray to dark brown, soft to firm, predominantly with fine gritty to silty texture, commonly with fine black carbonaceous inclusion, occasionally coarse platy carbonaceous debris. SANDSTONE; light gray, firm, fine grained to silty, siliceous, tight.
5550-5600	SHALE; dark brown to dark gray, firm, subblocky, occasionally splintery, subfissile, predominantly with fine gritty to silty texture, abundant fine black carbonaceous debris, trace black carbonaceous stringers, trace thin pyrite stringers, trace loose COAL
5600-5650	SANDSTONE; white to light gray, firm to friable, very fine to medium grained, moderately well sorted, commonly with black to brown mineral inclusion, occasionally black SHALE stringers and partings, non calcareous white matrix, no visible porosity. SHALE; continued as above, trace loose COAL; black, brittle, vitreous. LIMESTONE; trace only, very poor green to white, hard blocky very dull yellow mineral fluorescence, tight.
5650-5700	SHALE; dark gray to dark brown, soft to firm, platy to subblocky, trace black carbonaceous stringers, commonly very soft subwaxy. COAL; black, blocky, vitreous.

SAMPLE DESCRIPTIONS

Depth (ft)	Descriptions
5700-5750	SHALE; abundant varicolored cavings, red orange to green to brown, occasionally dl gray, platy, soft, subfissile, trace thin black shale stringers. SANDSTONE; white, friable, medium to upper medium grained, subangular, moderately well sorted, well consolidated, scattered black to brown mineral inclusion, non calcareous, no visible porosity, no fluorescence stain odor or cut
5750-5800	SANDSTONE; white to light gray, friable, medium to upper medium grained, subrounded. moderately well sorted and consolidated, scattered black to green to brown medium grained mineral inclusion, spotty white non calcareous matrix, no to poor visible porosity, no fluorescence stain odor or cut. SHALE; gray to gray green, soft, platy, subwaxy, trace varigated, trace loose COAL.
5800-5850	SANDSTONE; continued as above, trace poor intergranular porosity, no fluorescence stain odor or cut. SHALE; dark brown to dark gray, soft to firm, platy to subblocky, commonly with fine gritty to silty texture, trace very thin black carbonaceous stringers, and micro carbonaceous inclusion, trace loose COAL.
5850-5900	SHALE; dark gray to dark brown; soft, platy, occasionally subfissile, predominantly with fine gritty texture, occasionally subwaxy, trace thin black COAL and carbonaceous stringers and partings. SANDSTONE, light gray to white; firm, fine to lower medium grained, subangular, siliceous, tight, no fluorescence stain odor or cut
5900-5950	SHALE; dark gray to dark brown, soft, platy, subfissile, subwaxy, commonly fine gritty to sandy texture, trace black, very carbonaceous. SANDSTONE; white to light gray, friable to firm, fine grained, subangular, siliceous, occasionally black mineral inclusion, no visible porosity, no fluorescence stain odor or cut.
5950-6000	SHALE; dark gray to brown, continued as above, abundant cavings. SANDSTONE; light gray to light brown, firm, very fine grained, subangular, well sorted and consolidated, no calcareous, no visible porosity, trace very dull yellow fluorescence no odor cut.
6000-6050	SANDSTONE; light gray to light brown, firm to friable, fine to lower medium grained, subangular to subrounded, well sorted and consolidated, predominantly with gray siliceous matrix, trace poor intergranular porosity, abundant light brown possible dead oil stain, dull yellow fluorescence, no streaming cut, occasionally very faint residual cut, no odor. SHALE; continued as above.
6050-6100	SANDSTONE; off white to very pale brown, firm to friable, fine grained, subrounded to subangular, well sorted and consolidated, occasionally with fine black mineral inclusion, occasionally light gray siliceous matrix, no to poor visible porosity, commonly with very thin black carbonaceous stringers and partings, trace dull yellow fluorescence, no stain odor or cut. SHALE; medium to dark gray, firm to soft, subblocky, occasionally subfissile, occasionally black carbonaceous stringers, trace waxy varigated.
6100-6150	SANDSTONE; off white to light brown to light gray, friable to firm, fine to lower fine grained, subrounded to subangular, commonly with black carbonaceous SHALE partings and stringers, rarely assoc with COAL, no to poor visible porosity no fluorescence stain odor or cut. SHALE; continued as above. COAL, trace only, black, blocky occasionally fissile grading to carbonaceous SHALE, trace vitreous.
6150-6200	SHALE; dark gray to dark brown, soft to firm, platy, subfissile, commonly with fine gritty texture, occasionally thin black carbonaceous stringers. COAL; black, blocky, occasionally fissile in part, predominantly vitreous luster. SANDSTONE; continued as above.
6200-6250	SHALE; dark brown to dark gray, soft to firm, subblocky, fine gritty to silty texture, abundant carbonaceous stringers and partings, trace micro carbonaceous inclusion, trace pale green, soft waxy.
6250-6300	SHALE; dark gray to dark brown, soft, subblocky, predominantly fine gritty to silty texture, occasionally thin carbonaceous stringers, trace loose COAL.
6300-6350	SHALE; continued as above, occasionally subfissile, splintery, trace pale gray to gray green, subwaxy.

SAMPLE DESCRIPTIONS

Depth (ft)	Descriptions
6350-6400	SHALE; dark gray to dark brown, soft, platy to subblocky, occasionally subfissile, commonly fine gritty to silty, occasionally medium gray with black COAL stringers. SANDSTONE; white to light gray, friable to firm fine to lower fine grained, black to brown mineral inclusion, well sorted and consolidated, occasionally black very carbonaceous stringers and partings, no visible porosity, no fluorescence stain odor or cut. COAL, black vitreous, brittle.
6400-6450	SHALE; dark brown to dark gray, soft, subblocky, fine gritty to silty texture, abundant micro black carbonaceous inclusion, trace very thin COAL stringers and carbonaceous inclusion, rarely pyrite, trace loose COAL.

UPPER SEGO 6,468' MD, 6,464' TVD (+795')

6450-6500	SANDSTONE; white to very pale brown; friable to firm, medium grained, subrounded to subangular, abundant gray to black mineral inclusion, siliceous, trace poor interparticle porosity, no fluorescence stain odor or cut. SHALE; dark gray to dark brown, firm to soft, platy, subfissile, commonly carbonaceous.
6500-6540	SHALE; dark gray to dark brown, firm, subblocky, fine gritty to silty texture, occasionally micro carbonaceous inclusion, trace, thin carbonaceous stringers, trace loose COAL.
6540-6570	SHALE; dark gray to dark brown, firm to soft continued as above, occasionally pale green, soft, blocky, subwaxy.

LOWER SEGO 6,572' MD, 6,567' TVD (+692')

6570-6580	SANDSTONE; white, friable to firm, subangular to subrounded, moderately well sorted and consolidated, siliceous, abundant medium grained black to dark gray mineral inclusion, rarely glauconite, trace black carbonaceous SHALE stringers and partings. occasionally fair intergranular porosity, dull yellow fluorescence, no stain odor or cut.
6580-6600	SANDSTONE; white to light brown, friable to firm, fine to lower medium grained, continued as above, occasionally poor intergranular porosity, dull yellow fluorescence, no stain odor or cut. SHALE; dark gray to medium gray, firm, platy, subfissile to subblocky, commonly carbonaceous in part.

BUCK TONGUE 6,607' MD, 6,602' TVD (+657')

6600-6630	SHALE; dark gray to dark brown, firm to soft, subblocky, occasionally with gritty texture, trace micro carbonaceous inclusion, trace loose COAL. SANDSTONE; white to light brown, continued as above.
6630-6660	SHALE; dark gray to dark brown, firm to soft subblocky, fine gritty texture commonly very silty with fine to micro carbonaceous inclusion. SANDSTONE; light brown to light gray to white, firm to friable, fine to very fine grained, subrounded, well consolidated, moderately well sorted, occasionally with coarse carbonaceous inclusion, no to poor visible porosity, trace loose COAL, no fluorescence stain odor or cut.

CASTLEGATE 6,640' MD, 6,635' TVD (+624')

6660-6690	SANDSTONE; off white to very pale brown, friable to firm, fine to lower fine grained, subrounded, well sorted and consolidated, commonly with black to brown mineral inclusion, trace black SHALE partings, light gray siliceous matrix, no visible porosity, trace loose COAL, no fluorescence stain odor or cut.
6690-6720	***SANDSTONE; very pale brown to off white, firm to friable, fine to lower medium grained, subrounded to subangular, black to brown trace red mineral inclusion, well sorted and consolidated, trace poor intergranular porosity, trace spotty brown stain, occasionally dull yellow fluorescence, faint non to streaming cut, no odor.***

SAMPLE DESCRIPTIONS

Depth (ft)	Descriptions
6720-6750	SANDSTONE; pate brown to off white, friable to firm, fine to lower medium grained, subrounded to subangular, occasionally white siliceous matrix, occasionally well rounded gray to brown inclusion, predominantly tight with trace poor intergranular porosity, abundant even brown stain, trace dull yellow fluorescence, no cut.
6750-6766	***SANDSTONE; white to very pale brown, firm to friable, fine to very fine grained, subangular to sub rounded, well sorted and consolidated, spotty siliceous matrix, predominantly tight with trace poor to fair intergranular porosity, occasionally moderately to bright yellow gold fluorescence, spotty to even light brown stain, fair streaming cut.***
6766-6780	SANDSTONE; white to light gray, firm to friable, fine grained, subangular, well consolidated moderately well sorted, no to poor visible porosity, abundant black carbonaceous partings and inclusion, no fluorescence stain odor or cut.
6780-6810	SANDSTONE; white, clean, friable, fine to lower medium grained, subrounded to subangular, moderately well sorted and consolidated, commonly with gray to black mineral inclusion, spotty white siliceous matrix, trace poor rarely fair intergranular porosity. occasionally even light b no stain, moderately to bright yellow fluorescence, faint slow streaming cut.
6810-6840	SANDSTONE; white to light gray, firm, fine to very fine grained, subangular, well sorted and consolidated, predominantly with fine black mineral inclusion, rarely glauconite, commonly with siliceous matrix, no visible porosity, trace dull yellow fluorescence, weak non streaming cut, no stain or odor. SHALE; dark gray firm, platy, subfissile, occasionally subwaxy, occasionally carbonaceous in part.

MANCOS 6,842' MD, 6,836' TVD (+423')

6840-6870	SHALE; dark brown to dark gray, firm to soft, subblocky, fine gritty to silty texture, abundant fine black carbonaceous inclusion, trace loose COAL.
6870-6900	SHALE; dark brown to dark gray, occasionally light to medium gray. predominantly with gritty to silty texture, commonly with black carbonaceous inclusion, trace pale green waxy inclusion, occasionally pale green, splintery waxy.
6900-6930	SHALE; dark gray to dark brown, firm to soft, subblocky, fine gritty texture, micro carbonaceous inclusion, commonly slightly calcareous, trace silty in part.
6930-6960	SHALE; dark gray to dark brown, soft, subblocky to platy, predominantly . fine gritty texture, occasionally light gray green subwaxy.
6960-6990	SHALE; dark gray to gray brown, soft, subblocky, fine gritty texture, micro carbonaceous inclusion, abundant varicolored cavings.
6990-7020	SHALE; dark brown to dark gray, soft, subblocky, fine gritty texture, continued as above. SILTSTONE; light gray, firm to hard, very fine, very well consolidated, trace micro black to red to green mineral inclusion, calcareous in part, tight throughout, no fluorescence stain odor or cut.
7020-7050	SHALE; dark gray to dark brown, soft, subblocky to blocky, fine gritty texture occasionally micro carbonaceous inclusion, trace very thin carbonaceous stringers, commonly slightly calcareous.
7050-7080	SHALE; brown to dark brown to dark gray, continued as above.
7080-7110	SHALE; dark gray to dark brown, firm to soft, blocky to subblocky, fine gritty to silty texture, fine carbonaceous inclusion, occasionally black carbonaceous shale partings, slightly calcareous.
7110-7140	SHALE; dark brown to dark gray, continued as above, occasionally silty calcareous.
7140-7170	SHALE; dark gray to dark brown, soft, subblocky, fine gritty to silty texture, fine to micro carbonaceous inclusion, occasionally black carbonaceous partings, slightly calcareous.
7170-7200	SHALE; SHALE; dark brown to dark gray, soft to firm, subblocky fine gritty to silty texture, abundant fine to micro black carbonaceous inclusion, occasionally silty in part, commonly slightly calcareous.
7200-7250	SHALE; dark brown to dark gray, soft, subblocky to blocky, fine gritty to silty in part, abundant fine to micro carbonaceous inclusion, trace very thin black carbonaceous inclusion, trace black carbonaceous partings, calcareous in part.

SAMPLE DESCRIPTIONS

Depth (ft)	Descriptions
7250-7300	SHALE; dark brown to dark gray, soft to firm, subblocky fine gritty to silty, fine to micro carbonaceous inclusion, trace thin carbonaceous stringers and partings, commonly slightly calcareous.
7300-7350	SHALE; continued as above.
7350-7400	SHALE; dark brown to dark gray, soft to firm, fine gritty to silty texture, fine to micro carbonaceous inclusion and very fine stringers, slightly calcareous.

MANCOS 'B' 7,402' MD, 7,394' TVD (-135')

7400-7450	***SHALE; dark gray to dark brown, firm to soft, subblocky, finely gritty to silty texture, predominantly as above with traces light brown to clear, micro crystal growths, terminated quartz crystals, possible siderite crystals, possible fracture fill.***
7450-7500	SHALE; dark brown to dark gray firm, subblocky, fine gritty to silty, fine to micro carbonaceous inclusions. SILTSTONE: light to medium gray, very fine, argillaceous, occasionally with black mineral inclusions, slightly calcareous, trace siliceous, tight throughout no fluorescence stain odor or cut.
7500-7550	SHALE; dark gray to dark brown, continued as above. SILTSTONE; light gray to dirty brown, firm, very fine, slightly calcareous, predominantly argillaceous with micro black mineral inclusion, trace dark gray SHALE partings, tight throughout.
7550-7650	SHALE; gray to medium light gray, firm to soft, fine gritty texture abundant very silty with micro black mineral inclusion, calcareous tight.
7650-7700	SHALE; dark gray to dark brown, firm to soft, subblocky, fine gritty texture, occasionally light gray very silty with black carbonaceous stringers, calcareous in part.
7700-7750	SHALE; dark gray to dark brown, firm, subblocky, fine gritty texture micro carbonaceous inclusion and stringers, commonly silty in part, trace sandy, slightly calcareous.
7750-7800	SHALE; dark brown to dark gray, firm to soft, subblocky, commonly fine gritty to silty texture, trace light gray SILTSTONE stringers, tight throughout.
7800-7850	SHALE; dark brown to dark gray, firm to soft, subblocky, fine gritty texture occasionally silty in part, trace loose SANDSTONE clusters, fine grained tight, calcareous IP.
7850-7900	SHALE; dark gray to dark brown, soft, blocky to platy, commonly with micro carbonaceous inclusion, trace silty in part, calcareous in part.
7900-7950	SHALE; dark brown to dark gray, soft, subblocky to blocky, occasionally micro gritty texture, micro carbonaceous inclusion, calcareous in part.
7950-8000	SHALE, continued as above, predominantly very soft, trace soft thin platy with bitumen striations.
8000-8050	SHALE; dark brown to dark gray, soft, subblocky, fine to micro gritty texture, micro black carbonaceous inclusion, trace light gray SILTSTONE stringers, rarely sandy, tight throughout.
8050-8100	SHALE; dark gray to dark brown, firm to soft, splintery to subblocky, commonly with fine to micro carbonaceous inclusions, trace silty in part, trace thin SILTSTONE stringers.
8100-8150	SHALE; dark gray to dark brown, firm to soft, predominantly with micro carbonaceous inclusion, trace light gray SILTSTONE stringers, slightly calcareous.
8150-8200	SHALE; dark gray to dark brown, soft, platy to subblocky, commonly . fine to micro carbonaceous inclusion, occasionally silty in part, trace polished thin platy fragments with bit striations.

LOWER BLUE GATE 8,185' MD, 8,183' TVD (-924')

8200-8250	SHALE; dark gray to dark brown, firm to soft, blocky to subblocky, occasionally fine to micro carbonaceous inclusion, trace micro bit striations.
8250-8300	SHALE; dark gray to dark brown to black, continued as above, trace medium green to pale green, soft, platy subfissile, waxy fluorescence, possible Bentonite.
8300-8350	SHALE; dark gray to dark brown, soft to firm, abundant very fine to micro carbonaceous inclusion and thin stringers, occasionally silty texture, trace light green, waxy with dull yellow mineral fluorescence.

SAMPLE DESCRIPTIONS

Depth (ft)	Descriptions
8350-8400	SHALE; continued as above, trace Inoceramous fragments, abundant bit striations. SANDSTONE; trace only (<2%), white, firm, fine to very fine grained, subrounded to subangular, well sorted and consolidated, spotty milky white calcareous matrix, occasionally dirty gray argillaceous with dark gray shale stringers, trace micro disseminated pyrite, no visible porosity, no fluorescence stain odor or cut
8400-8450	SHALE; dark brown to gray to dirty brown, firm to hard, predominantly very soft, commonly grading to argillaceous SANDSTONE, commonly mottled texture with coarse dark gray carbonaceous inclusion, no visible porosity, calcareous, rare trace Inoceramous.
8450-8500	SHALE; dark brown to dark gray to brown, firm to hard, platy to subblocky, predominantly sandy in part, occasionally thin white calcareous stringers, commonly with fine to micro carbonaceous inclusion.
8500-8550	SHALE; dark brown to dark gray, firm, subblocky, fine gritty to silty texture, predominantly with fine to micro carbonaceous inclusion, trace fissile with very thin carbonaceous stringers, predominantly calcareous.
8550-8600	SHALE; dark brown to dark gray, firm to soft, subblocky, commonly fine gritty to silty texture, calcareous in part, predominantly with micro carbonaceous inclusion and occasionally stringers.
8600-8650	SHALE; dark brown to dark gray, soft to firm, subblocky, abundant fine to micro carbonaceous inclusion, calcareous in part.
8650-8700	SHALE; dark gray to dark brown, soft, subblocky to platy, fine to micro carbonaceous inclusion, trace subfissile very carbonaceous, calcareous in part.
8700-8750	SHALE; dark gray to medium brown, soft, subblocky, fine gritty to silty texture, abundant scattered fine black carbonaceous material, calcareous in part.
8750-8800	SHALE; dark gray, firm to soft, blocky to subblocky, abundant black carbonaceous stringers and inclusion, trace black very carbonaceous, trace loose COAL.
8800-8850	SHALE; dark by, firm, blocky to subblocky, predominantly carbonaceous, trace black very carbonaceous, trace loose pyrite.
8850-8900	SHALE; dark gray, firm to soft, subblocky, occasionally platy subfissile, predominantly carbonaceous occasionally with fine gritty texture, abundant bitumen striations.
8900-8950	SHALE; dark gray, soft to firm, subblocky, fine to micro gritty texture, abundant micro carbonaceous inclusion and occasionally thin black carbonaceous stringers.
8950-9000	SHALE; dark gray, soft to firm, subblocky, occasionally platy, subfissile, predominantly carbonaceous.
9000-9050	SHALE; dark gray to dark brown, continued as above, commonly slightly calcareous.
9050-9100	SHALE; dark gray, soft to firm, subblocky, occasionally with fine gritty texture. commonly with fine black carbonaceous inclusion and stringers, calcareous, rarely with thin white calcite stringers.
9100-9150	SHALE; continued as above.
9150-9200	SHALE; dark gray, occasionally dark brown, firm to soft, subblocky, occasionally subfissile . fine gritty texture, abundant micro black carbonaceous inclusion and occasionally stringers, slightly calcareous.
9200-9250	SHALE; dark gray to dark brown, soft, subblocky, predominantly carbonaceous in part, continued as above. trace light gray silty stringers.
9250-9300	SHALE; dark gray, soft to firm, subblocky to platy predominantly carbonaceous with very fine carbonaceous inclusion and thin stringers.
9300-9350	SHALE; dark gray, soft to firm continued as above, predominantly carbonaceous, trace light green splintery, waxy.
9350-9400	SHALE; dark gray, soft, subblocky, fine carbonaceous inclusion, occasionally silty in part with very fine light gray SILTSTONE.
9400-9450	SHALE; dark gray, soft, subblocky, predominantly carbonaceous with fine to micro carbonaceous inclusion, occasionally carbonaceous stringers, trace silty in part, commonly with bitumen striations.

SAMPLE DESCRIPTIONS

Depth (ft)	Descriptions
9450-9500	SHALE; dark gray, firm to soft, subblocky, commonly with fine gritty texture silty in part, commonly with fine to micro carbonaceous inclusion, trace pale green clay inclusion. SANDSTONE; dirty gray to white, firm to hard, very fine grained to silty, abundant black to dark gray SHALE partings and stringers, tight throughout.
9500-9550	SHALE; continued as above, occasionally light green, waxy, commonly very silty to sandy, calcareous in part. SILTSTONE; white to dirty brown firm, very fine, commonly argillaceous with carbonaceous SHALE partings and stringers, slightly calcareous, tight throughout.
9550-9600	SHALE; dark gray to dark brown, firm, subblocky, carbonaceous, calcareous in part. SANDSTONE; pale to dirty brown to off white, firm to friable, fine to very fine grained, subrounded to subangular, moderately well sorted and consolidated, abundant black carbonaceous stringers and partings, calcareous, trace scattered very fine black carbonaceous debris and brown mineral inclusion, tight throughout
9600-9650	SHALE; dark gray to dark brown, firm to soft, subblocky to platy, predominantly carbonaceous, occasionally subfissile, silty to sandy, calcareous in part. SANDSTONE; dirty brown to light gray, firm. argillaceous, tight, continued as above.
9650-9700	SHALE; dark gray to dark brown, firm to soft, platy to blocky, occasionally subfissile, predominantly silty to sandy with fine black carbonaceous inclusion and stringers, calcareous in part, SANDSTONE; pale brown to light gray, firm, fine very grained, argillaceous with abundant black SHALE partings and stringers, trace very fine disseminated pyrite, slightly calcareous, tight throughout.
9700-9750	SHALE; dark gray to dark brown, firm to soft, subblocky, commonly silty to sandy in part, abundant carbonaceous material, slightly calcareous, SANDSTONE; off white to light gray to light brown, firm, very fine grained to silty, argillaceous in part with dl gray shale stringers and partings, commonly with fine black mineral inclusion, tight throughout.
9750-9800	SHALE; continued as above, predominantly silty to sandy. SANDSTONE; light gray to light brown to off white, firm to friable, very fine grained to silty, argillaceous with abundant carbonaceous inclusion, stringers and partings, calcareous in part, no visible porosity no fluorescence stain odor or cut.
9800-9850	SHALE; dark gray, soft to firm, subblocky, predominantly with fine gritty to silty texture, sandy in part, carbonaceous inclusion, slightly calcareous. SHALE; light gray to dirty brown, continued as above, tight throughout, no fluorescence stain odor or cut.
9850-9900	SHALE; dark gray, soft, blocky, decrease amount silty to sandy texture, trace subfissile, predominantly carbonaceous. SANDSTONE; light to medium gray, firm, very fine grained to silty, argillaceous, tight.
9900-9950	SHALE; dark gray to dark brown, soft to firm, subblocky, occasionally micro to fine gritty to silty texture, commonly with micro carbonaceous inclusion, trace light gray SILTSTONE stringers.
9950-10000	SHALE; dark gray, firm to soft, subblocky, occasionally micro granular texture, trace white crystalline calcite stringers, trace light gray SANDSTONE stringers, trace fossil fragments variety inoc, predominantly carbonaceous, calcareous in part.
10000-10050	SHALE; continued as above. SANDSTONE; light gray to off white, firm to friable, fine to upper grained , subrounded, poor sorted, moderately well consolidated, spotty white calcareous matrix, black to gray, mineral inclusion, occasionally carbonaceous stringers, tight throughout no fluorescence stain odor or cut
10050-10100	SHALE; dark gray, firm to soft, subblocky to platy, trace fissile, commonly fine granular to silty texture, commonly carbonaceous in part, occasionally calcareous in part, trace sandy, trace inoc. SANDSTONE; continued as above, tight, no fluorescence stain odor or cut
10100-10150	SHALE; dark gray to black, firm to soft, subblocky, fine gritty to silty texture, commonly slightly calcareous, possibly dolomitic in part, predominantly with fine to micro carbonaceous inclusions.
10150-10200	SHALE; dark gray to black, firm to soft, blocky to subblocky, abundant fine to micro carbonaceous inclusion, occasionally gritty to silty texture.
10200-10250	SHALE; dark gray, soft, subblocky, carbonaceous, continued as above.

SAMPLE DESCRIPTIONS

Depth (ft)	Descriptions
10250-10300	SHALE; dark gray, firm to soft, blocky, fine to micro carbonaceous inclusion, trace light green, soft subwaxy.
10300-10350	SHALE; dark gray to black, firm to soft, subblocky, occasionally subfissile, predominantly very carbonaceous micro carbonaceous inclusion.
10350-10380	SHALE; dark gray to black, soft to firm, blocky, carbonaceous, trace PYR, rarely loose COAL.
10380-10410	SHALE; black to dark gray continued as above.
10410-10440	SHALE; dark gray to very dark brown, firm to soft, blocky, predominantly with micro to fine gritty texture, abundant micro carbonaceous inclusion, trace light green, platy, waxy.

MANCOS SHOW ZONE 10,458' MD, 10,442' TVD (-3,183')

10440-10470	SHALE; dark gray to black, firm, blocky to subblocky, good to micro gritty texture, commonly carbonaceous, trace silty in part, trace light green to gray green, soft. platy, waxy.
10470-10500	SHALE; dark gray to black, firm to soft, subblocky, predominantly with fine gritty to silty texture, abundant black carbonaceous stringers and inclusion, trace pyrite, trace inoc.
10500-10530	SHALE; dark gray to black, soft, platy to blocky, predominantly carbonaceous, trace thin SILTSTONE stringers. BENTONITE; light gray to brown to gray green, soft, platy, splintery, subwaxy, occasionally light brown mineral increase, trace faint yellow gold mineral fluorescence.
10530-10560	SHALE; dark gray to black, soft, subblocky predominantly fine silty to gritty texture, predominantly carbonaceous with light brown to gray SILTSTONE stringers. Bentonite: trace only continued as above.
10560-10590	SHALE; dark gray to black, soft, carbonaceous, commonly silty in part, trace BENTONITE. SANDSTONE; trace only, light brown, friable, argillaceous with black carbonaceous stringers, fine grained to silty, tight
10590-10620	SHALE; dark gray to black, firm to soft, commonly silty to sandy in part, abundant b to micro carbonaceous inclusion, slightly calcareous, trace BENTONITE.
10620-10650	SHALE; dark gray to black to dark brown, soft to firm, subblocky, predominantly with fine to micro carbonaceous inclusion, commonly silty to sandy in part trace dirty brown SANDSTONE stringers.
10650-10680	SHALE; dark gray to black, soft to firm, very fine silty to sandy texture, predominantly with micro carbonaceous inclusion, commonly very sandy grading to argillaceous SANDSTONE, tight, rarely glauconite.

DAKOTA SILT 10,691' MD, 10,674' TVD, (- 3.415')

10680-10710	SHALE; dark grey to dark brown, firm to soft, predominantly very sandy grading to argillaceous SANDSTONE, abundant black carbonaceous inclusion and stringers, SANDSTONE; gray to dark gray, firm to hard, fine to very fine grained, very argillaceous commonly grading to sandy SHALE, poor sorted, well consolidated, slightly calcareous, subangular, rarely glauconite tight.
10710-10740	SANDSTONE; medium to dark gray, firm, fine to lower fine grained, subrounded to subangular, moderately well sorted, well consolidated, predominantly very argillaceous with dark gray clay. shale fill, slightly calcareous trace very fine glauconite, tight throughout no fluorescence stain odor or cut. SHALE; soft continued as above.
10740-10770	SHALE; dark gray to black, soft to firm, abundant fine gritty to silty texture, commonly silty to sandy in part, trace glauconite, slightly calcareous. SANDSTONE; medium to dark gray, argillaceous, glauconite, tight, continued as above.
10770-10800	SHALE; dark gray to black, soft, platy to blocky, commonly splintery subfissile, trace light green subwaxy. BENTONITE; very color light gray to pale green to light brown trace white, soft, platy, subfissile to fissile, subwaxy texture, trace copper color flakes, rarely varigated, abundant moderately bright orange to gold mineral fluorescence.

SAMPLE DESCRIPTIONS

Depth (ft) Descriptions

DAKOTA 10,790' MD, 10,773' TVD (-3,514')

10800-10820	SANDSTONE; light to medium gray, firm to hard, fine grained, subrounded to subangular, well sorted and consolidated, predominantly siliceous, occasionally with black carbonaceous stringers, rarely glauconite, commonly dark gray argillaceous, tight throughout no fluorescence stain odor or cut. SHALE; dark gray to black, firm to soft, platy, subfissile to subblocky, commonly silty to sandy, occasionally carbonaceous stringers trace COAL inclusion and stringers. BENTONITE; white to light brown to gray, soft, platy, subwaxy.
10820-10840	SANDSTONE; light brown to gray to off white, firm to hard, fine to upper fine grained, subangular to subrounded, well consolidated, moderately well sorted, siliceous, trace glauconite, trace disseminated pyrite, occasionally fine brown to dark gray mineral inclusion, no to poor visible porosity no fluorescence stain odor or cut. SHALE; dark gray to black, soft, platy, splintery, subfissile to fissile, predominantly carbonaceous, trace assoc COAL. BENTONITE; varicolored white to gray to brown, soft, platy, subwaxy, trace brown mineral inclusion, dull yellow mineral fluorescence.
10840-10860	SANDSTONE; light brown to light gray, firm to hard, fine to lower fine grained, subangular to sub rounded, siliceous with brown to gray mineral inclusion, predominantly tight with trace poor intergranular porosity, no fluorescence stain odor or cut. SHALE continued as above.
10860-10880	SANDSTONE; off white to very pale brown, firm to friable, very fine to upper fine grained, subrounded to well rounded, moderately well to poor sorted, well consolidated, occasionally brown mineral inclusions, predominantly siliceous, predominantly tight with trace poor intergranular porosity, no fluorescence stain odor or cut. SHALE; dark gray to black, soft, splintery fissile, predominantly carbonaceous in part, trace light gray waxy, trace COAL.
10880-10900	SANDSTONE; light gray to off white to clear, predominantly unconsolidated, fine to coarse grained, well rounded, frost to clear, quartz grains, occasionally well consolidated, fine grained, subangular, no calcareous, tight clusters, abundant very coarse angular CHERT fragments, inferred porosity, no visible porosity, trace spotty, very light brown stain, no fluorescence odor or cut. CHERT; gray to white to brown to dark brown, coarse fragments, sharp semi opaque to opaque.

CEDAR MOUNTAIN 10,904' MD, 10,887' TVD (-3628')

10900-10920	SHALE; very pale blue green to white, soft, platy, occasionally subwaxy, abundant black, splintery fissile, carbonaceous, trace COAL, black vitreous blocky. SANDSTONE; continued as above, trace very good grained pebble fragments, no fluorescence stain odor or cut. BENTONITE; light gray, soft, platy, waxy.
10920-10940	SHALE; pale blue green to green to white, soft. platy, continued as above. SANDSTONE; pale green to white, friable, very fine grained, subangular to subrounded, well sorted and consolidated, clean, siliceous, tight.
10940-10960	SANDSTONE; clear to off white, unconsolidated, fine to upper medium grained, frost to clear well rounded to angular loose quartz grains, inferred porosity, abundant loose white, chalky matrix material, no fluorescence stain odor or cut
10960-10980	LIMESTONE; white to very pale brown, firm occasionally hard, blocky, fine to microcrystalline, tight. SHALE; pale green, soft, platy, subwaxy, rarely varigated.
10980-11000	SHALE; distinct change, pale red brown to red orange, to off white to light green, soft to firm, platy, occasionally sandy in part, trace varigated,

BUCKHORN CONGLOMERATE 11,021' MD 11,013' TVD (-3754')

11000-11020	SHALE; moderate to bright orange red to red brown, soft, platy, occasionally very fine silty, abundant black, splintery to blocky, very carbonaceous. CHERT; white to clear to orange, sharp, semi opaque to opaque.

SAMPLE DESCRIPTIONS

Depth (ft) Descriptions

MORRISON 11,030' MD, 11,013' TVD (-3,754')

11020-11040	SHALE; red orange to pale green to white, soft to firm, platy, occasionally sandy in part, abundant black fissile, splintery carbonaceous.
11040-11060	SHALE, varicolored, red orange to pale green, to pale purple to white, soft, platy, occasionally sandy in part, rarely varigated.
11060-11080	SHALE; varicolored, pale green to pale purple to red orange to light gray, soft to firm, platy, occasionally splintery, occasionally black carbonaceous, trace sandy in part, trace loose pyrite.
11080-11100	SHALE; varicolored, red orange to pale green to purple, occasionally white siliceous, sandy in part, trace black, blocky carbonaceous, slightly calcareous.
11100-11120	SHALE; red orange to red brown to pale green to pale purple, soft, platy, occasionally fine silty to sandy in part, trace CHERT; white opaque, rarely broken coarse grained quartz pebble.
11120-11140	SHALE; distinct change, white to light gray, trace pale purple, firm to soft, platy, predominantly siliceous, occasionally calcareous. SANDSTONE; white, to light gray to pale purple, firm to friable, very fine grained to silty, well sorted and consolidated, commonly grading to sandy SHALE, spotty slightly calcareous matrix, tight, rarely CHERT.
11140-11160	SANDSTONE; white, clean, firm to friable, very fine grained to silty, well sorted and consolidated, milky white calcareous matrix, no visible porosity, no fluorescence stain odor or cut. SHALE; pale green to white, soft, platy, occasionally siliceous, occasionally black very carbonaceous.
11160-11180	SANDSTONE; white, clean, very fine grained to silty, calcareous, continued as above. SHALE; white to very pale green, platy, soft, siliceous in part, occasionally sandy in part, occasionally black, carbonaceous.
11180-11200	SHALE; white to very pale green, soft, platy, occasionally siliceous, occasionally black carbonaceous. SANDSTONE; white, clean, very fine grained, platy calcareous TT. LIMESTONE; very light brown to white, firm to hard, blocky, fine to microcrystalline, tight throughout.
11200-11230	SANDSTONE; white to very pale green, firm to friable, very fine grained, subangular, well sorted and consolidated, slightly calcareous, tight. SHALE; very pale green to white, soft, platy, occasionally black carbonaceous, trace pyrite, LIMESTONE; brown to dark brown, hard, blocky fine to micro crystalline, predominantly dense, tight throughout.
11230-11260	SANDSTONE; white, clean, very fine grained to silty, well sorted and consolidated, subangular, calcareous matrix, tight. SHALE; very pale green to light gray, soft, platy, occasionally siliceous in part, occasionally calcareous.
11260-11290	SHALE; very pale green to light gray to white, soft, platy, commonly black subfissile, splintery carbonaceous, SANDSTONE; pale green to white, friable to firm, very fine grained to silty, subangular, predominantly calcareous, clean, tight
11290-11320	SANDSTONE; white to pale green, clean, firm to friable, fine to lower fine grained, subrounded to sub angular, well consolidated, moderately well to poor sorted, calcareous matrix, occasionally brown mineral inclusion, spotty white calcareous matrix, tight throughout, no fluorescence stain odor or cut. SHALE; pale green, to white, continued as above, occasionally sandy in part.
11320-11350	SHALE; red orange to pale green to light brown, soft, platy, subfissile to subblocky, occasionally sandy in part, abundant black, firm, splintery, fissile, carbonaceous. SANDSTONE; continued as above, tight throughout, no fluorescence stain odor or cut.

SALT WASH 11,369' MD, 11,351' TVD (-4,092')

11350-11380	SANDSTONE; white to light gray, firm, fine grained, subangular, calcareous in part, occasionally milky white continued as above, no visible porosity, no fluorescence stain odor or cut. SHALE; predominantly pale green, platy, continued as above.

SAMPLE DESCRIPTIONS

Depth (ft)	Descriptions
11380-11410	SHALE; black to dark gray, firm to soft, splintery, fissile to subfissile very carbonaceous, abundant red orange to red brown, subblocky, silty to sandy in part, slightly calcareous. SANDSTONE; pale green to white, firm, fine grained, subrounded, well consolidated, moderately well sorted, calcareous, tight.
11410-11440	SHALE; pale green to red orange to red brown to light purple to white, soft, platy, commonly black, splintery, fissile, carbonaceous. SANDSTONE; white to pale green, fine grained, calcareous, tight, continued as above.
11440-11470	SHALE; red orange to black to pale green, platy to subblocky, occasionally very fine silty, commonly splintery, fissile carbonaceous, SANDSTONE; white, clean, fine grained, subangular to sub rounded, well consolidated and sorted, calcareous, tight.
11470-11500	SHALE; light orange to pale green to red orange, soft, platy, occasionally fine silty to sandy, calcareous in part, abundant black, splintery, carbonaceous, trace large flakes BIO.
11500-11530	SHALE; very color, continued as above. SANDSTONE; white to pale gray, friable to firm, fine to lower medium grained, subrounded to well rounded, poor sorted. moderately well consolidated, spotty calcareous matrix, no visible porosity, no fluorescence stain odor or cut.
11530-11560	CLAYSTONE; white to very light brown, firm, blocky, very calcareous grading to LIMESTONE, tight, SANDSTONE, light gray to very light brown, firm to friable, fine grained to silty, calcareous, tight. SHALE; continued as above.
11560-11590	SHALE; red orange to pale orange to pale green to white, soft, platy, calcareous, occasionally silty to soft in part, commonly black, fissile, splintery, carbonaceous.
11590-11620	SHALE; pale green to red orange to pale orange to black to white, continued as above
11620-11650	SHALE; moderately distinct change, light orange to red orange, soft, platy, occasionally silty, calcareous in part,

SUMMERVILLE 11,670' MD, 11,652' TVD (-4,393')

11650-11680	SHALE; bright red orange to pale orange, platy, commonly silty to sandy in part. SANDSTONE, milky white, clean, firm to hard, fine to upper fine grained, subrounded, well sorted and consolidated, spotty white calcareous matrix, tight, no fluorescence stain odor or cut.
11680-11710	SHALE; pale orange to light red orange to red brown to pale green, soft to firm, platy, calcareous, occasionally black carbonaceous. SANDSTONE continued as above

CURTIS 11,704' MD, 11,685' TVD (-4,426')

11710-11740	SANDSTONE; very light gray to white to very light brown, firm to friable, fine to lower fine grained, sub angular to sub rounded, spotty calcareous matrix, abundant well rounded upper fine grained dark gray to brown argillaceous grains, moderately well to poor sorted, well consolidated, no visible porosity no fluorescence stain odor or cut. SHALE; red orange to red brown to black, continued as above.
11740-11770	SANDSTONE; white to very light gray to pale green, friable, upper fine to very fine grained, subrounded, abundant well rounded dark gray, medium to upper medium grained, inclusion, occasionally glauconite pellet, milky white calcareous matrix, no visible porosity, N FSOC. SHALE; red brown to red orange to pale green, platy, commonly black, fissile, splintery, carbonaceous.

MOAB TONGUE 11,770' MD, 11,751' TVD (-4,492')

11770-11800	SHALE; dark gray to black, firm, platy, splintery t, fissile carbonaceous, occasionally sandy in part, occasionally light gray, soft waxy, abundant continued as above. SANDSTONE; continued as above trace lower medium grained, poor sorted subangular, tight throughout.

SAMPLE DESCRIPTIONS

Depth (ft) Descriptions

ENTRADA 11,784' MD, 11,765' TVD (-4,506')

11800-11830	Poor sample, abundant varicolored orange to red orange to pale green to black, splintery SHALE cavings. SANDSTONE; trace only, very pale orange to white. very friable, fine grained, subangular, moderately well sorted and consolidated, abundant loose clear well rounded quartz grains, trace poor intergranular porosity, no fluorescence stain odor or cut
11830-11850	Predominately very color SHALE cavings, continued as above. SANDSTONE trace only, very pale orange, very friable, upper fine to very fine grained, subangular, poor sorted, poor consolidated, commonly unconsolidated subangular to well rounded lower coarse grained quartz grains, spotty slightly calcareous matrix, trace micro micaceous (biotite), no visible porosity, no fluorescence stain
11850-11870	SANDSTONE; white to very pale orange, friable, upper fine to fine grained, subangular to angular, poor sorted, occasionally with angular dark gray inclusion, slightly calcareous matrix to siliceous, occasionally loose upper medium grained, clear quartz grains, trace biotite, abundant milky white bitumen flour, no to poor visible porosity, no fluorescence stain odor or cut. SHALE; predominantly black, fissile, splintery , occasionally sandy in part, abundant varicolored cavings.
11870-11890	SANDSTONE, continued as above, abundant milky white bitumen flour, trace thin platy micaceous stringers, tight throughout. SHALE, predominantly black and varicolored cavings, trace BENTONITE; light green, soft, waxy, platy.
11890-11910	SHALE; black to dark gray, firm to soft, splintery, fissile, occasionally fine gritty texture, predominantly carbonaceous in part, occasionally red orange to pale green, probable cavings. SANDSTONE; trace only, white to pale orange to very light gray, friable, subangular to subrounded, slightly calcareous, occasionally loose medium grained, well rounded, quartz grains, no fluorescence stain odor or cut.
11910-11930	SANDSTONE; unconsolidated, clear to very pale orange, well rounded to subangular, frost to clear, quartz grains, abundant milky white to pale orange bitumen flour, no fluorescence stain odor or cut. SHALE; varicolored continued as above, predominantly black cavings.
11930-11950	SANDSTONE; off white to pale orange occasionally very pale green, friable, fine to upper fine grained, subangular to subrounded, moderately well to poor sorted, commonly unconsolidated fine to medium grained, subangular to subrounded quartz grains, spotty slightly calcareous matrix, no to poor visible porosity no fluorescence stain odor or cut. SHALE, black to dark gray, firm, splintery, fissile, carbonaceous, commonly varicolored red orange to red brown to pale green, occasionally soft splintery waxy.
11950-11970	SHALE; distinct change, white to very pale green, soft, very splintery, subfissile, subwaxy with scattered thin black platy mineral inclusions, possible carbonaceous material trace biotite.
11970-11990	SANDSTONE; very pale orange to orange pink to white, friable to firm, fine grained, subangular, moderately well sorted, slightly calcareous, commonly unconsolidated medium grained, subrounded to well rounded, light orange to white to clear, occasionally frost quartz grains, no visible porosity, no fluorescence stain odor or cut. SHALE; black to dark gray, fissile, carbonaceous, commonly varicolored red orange to red brown, occasionally white, very splintery continued as above.
11990-12010	SHALE; dark gray to black, firm, subblocky to platy, abundant fissile, splintery, carbonaceous, abundant varicolored red orange to brown to pale green. SANDSTONE; light gray, firm, fine grained to silty, fine grained, subangular, well consolidated and sorted, commonly unconsolidated fine to medium grained well rounded quartz grains, no visible porosity, no fluorescence stain odor or cut.
12010-12030	SANDSTONE; very pale orange to pale green, very friable, fine to very fine grained, subrounded, slightly to non calcareous, abundant pale orange bitumen flour, trace unconsolidated, no fluorescence stain odor or cut. SHALE; black to red orange to red brown, continued as above.
12030-12050	SANDSTONE; milky white to clear, very friable, upper fine to fine grained, subangular, moderately well to poor sorted, slightly calcareous, no to poor intergranular pot, trace gray mineral inclusion, abundant milky white bitumen flour, no fluorescence stain odor or cut. SHALE; black, fissile, very carbonaceous, commonly red orange. platy.

Depth (ft)	Descriptions
12050-12070	SILTSTONE; distinct change, pale red orange, friable to firm, very fine occasionally fine very sandy, spotty white calcareous matrix, occasionally grading to varigated CLAYSTONE, tight throughout. SHALE and SANDSTONE continued as above, tight throughout.

CARMEL 12,062' MD, 12,043' TVD (-4,784')

12070-12090	SANDSTONE; white to light gray, firm, fine grained to very fine grained, subrounded to subangular well sorted and consolidated, occasionally dark brown mineral inclusion, slightly calcareous, trace loose well rounded quartz grains, no visible porosity, no fluorescence stain odor or cut. SHALE; light to medium gray, firm to soft, blocky, occasionally very fine sandy in part, commonly red orange to pale green continued as above. SILTSTONE; red orange to pale orange continued as above.
12090-12100	SANDSTONE; light to medium gray, firm, very fine grained to silty, well sorted and consolidated, argillaceous in part, predominantly calcareous, occasionally dark gray art stringers, tight throughout. SHALE; light to medium gray, firm, blocky, calcareous, trace micro micaceous, occasionally silty in part, occasionally pale green, trace bright green possible glauconite.
12100-12110	SHALE; gray to medium gray, firm, blocky, occasionally pale green, silty to sandy in part, calcareous. SANDSTONE; white to pale green, occasionally very pale orange, friable, fine grained, subangular slightly calcareous, tight.
12110-12130	SHALE; light to medium gray, firm to soft, subblocky, calcareous, occasionally micro mica, (biotite), trace silty to sandy. SANDSTONE; pale orange to red orange occasionally white, friable, fine grained, subangular to subrounded, moderately well consolidated and sorted, spotty white calcareous matrix, no to poor visible porosity, no fluorescence stain odor or cut.
12130-12150	SANDSTONE; milky white to pale green to pale orange, fine to very fine grained, subrounded to subangular, calcareous, no visible porosity, trace loose biotite flakes, abundant milky white bitumen flour no fluorescence stain odor or cut. SHALE; medium gray to dark gray to black, firm to soft, fissile, carbonaceous. BENTONITE; pale green to white, soft, platy, subfissile, subwaxy.
12150-12170	SANDSTONE; pale orange to white to clear, fine to very fine grained, very friable, subrounded, well sorted and consolidated, commonly with brown to orange mineral inclusion, predominantly siliceous, non calcareous, abundant pale orange to milky white bitumen flour, no visible porosity no fluorescence stain odor or cut. SHALE; red orange to red brown to pale green, soft, platy, occasionally black carbonaceous.

KAYENTA 12,184' MD, 12,165' TVD (-4,906')

12170-12190	SHALE; very distinct change, red orange to orange, soft platy, predominantly very silty, slightly to no calcareous, rarely white SANDSTONE stringers.
12190-12210	SANDSTONE; pale orange, friable, fine to very fine grained, subangular to sub rounded, well consolidated and sorted, non calcareous, occasionally with orange SHALE partings. SHALE; red orange, continued as above.
12210-12230	SANDSTONE; white to pale orange, very friable, fine to very fine grained; subangular, well sorted, no visible porosity, abundant milky white bitumen flour, no fluorescence stain odor or cut.
12230-12250	SANDSTONE; very pale orange to milky white to clear, friable, fine to very fine grained, subangular, moderately well sorted, non calcareous, abundant milky white bitumen flour, no visible porosity, no fluorescence stain odor or cut. SHALE; pale green to pale orange to red orange, soft, platy, occasionally silty in part, occasionally splintery waxy, abundant black carbonaceous.

WINGATE 11,258' MD, 12,239' TVD (-4,980')

12250-12270	Poor sample, predominantly black to red orange to green, cavings. SANDSTONE; pale orange, friable, fine to very fine grained, subangular, trace loose sub rounded quartz grains, no to poor visible porosity, inferred porosity from ROP no fluorescence stain odor or cut.

SAMPLE DESCRIPTIONS

Depth (ft)	Descriptions
12270-12290	SANDSTONE; pale orange to white, friable, fine to very fine grained, subrounded, occasionally subangular, well sorted, trace poor sorted, trace Inoceramous, fine grained quartz grains, no visible porosity, no fluorescence stain odor or cut. SHALE 80 to 90 % black and varicolored SHALE cavings.
12290-12310	SANDSTONE; pale orange; friable, fine to very fine grained, subangular, moderately well sorted and consolidated, trace loose medium grained well rounded quartz grains, slightly to non calcareous, no visible porosity, no fluorescence stain odor or cut, 90% black and varicolored SHALE cavings.
12310-12330	SANDSTONE; very pale orange, occasionally white to clear, friable, fine grained, subangular, non calcareous, tight, no fluorescence stain odor or cut, predominantly SHALE cavings.
12330-12350	SANDSTONE; pale orange to white, continued as above, no fluorescence stain odor or cut, predominantly black and varicolored SHALE cavings.
12350-12370	SANDSTONE; pale orange to light gray, friable, occasionally firm, fine grained, subangular, slightly calcareous, well sorted and consolidated, trace lower medium grained, poor sorted, tight throughout, predominantly SHALE cavings.
12370-12390	SANDSTONE; pale orange continued as above, abundant unconsolidated medium to upper fine grained, well rounded to subrounded clear to frost quartz grains, inferred porosity, abundant milky white to orange bitumen flour, no fluorescence stain odor or cut, abundant SHALE cavings continued as above.
12390-12410	SANDSTONE; very pale orange to white, friable to firm, fine grained, subangular, moderately well sorted and consolidated, occasionally slightly calcareous, occasionally loose well rounded medium grained quartz grains, abundant milky white bit flour, no visible porosity, no fluorescence stain odor or cut, abundant varicolored SHALE cavings.
	DRILLERS TD 12,410', 9:20 AM, 12/27/07

FEDERAL APPROVAL OF THIS ACTION IS NECESSARY

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: 2OG0005577

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NHC 14-8-15-20

2. NAME OF OPERATOR: WIND RIVER RESOURCES CORP

9. API NUMBER: 43047396460000

3. ADDRESS OF OPERATOR: 1245 E Brickyard Rd Ste 110 , Salt Lake City, UT, 84106

PHONE NUMBER: 801 466-4131 Ext

9. FIELD and POOL or WILDCAT: WILDCAT

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0195 FNL 2419 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 17 Township: 15.0S Range: 20.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 7/1/2016	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	✓ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ SPUD REPORT Date of Spud:	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Wind River Resources Corporation hereby provides notice of intent to plug and abandon the subject well per the attached procedure or as approved by the BLM.

Accepted by the Utah Division of Oil, Gas and Mining

Date: March 24, 2016

By: Dark K Dunt

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Marc Eckels	435 901-4217	Agent
SIGNATURE N/A		**DATE** 3/14/2016

RECEIVED: Mar. 14, 2016

Wind River Resources Corporation
P&A Procedure
North Hill Creek 14-8-15-20

Flat Rock Field

PERTINENT INFORMATION

API No.: 43-047-39646

Surface Location: NENW Section 17
Township 15 South, Range 20 East
Uintah County, Utah
195' FNL, 2419' FWL

Elevation: 7243' GL, 7259' KB (16' KB)

TD: 12,409' KB

PBTD: 8602' KB (cement in casing)

Casing: 9-5/8", 36.0#, J-55 @ 2683', cemented to surface
4-1/2", 11.6#, P-110 @ 8673', cemented to 2540' KB

Tubing: 2-3/8", 4.7#, N-80 to 8298'

Production Casing Specs: 4-1/2", 11.6#, P-110, ID: 4.000", Drift: 3.875", Collapse: 7580 psi, Burst: 10,690 psi (70% 7483 psi)

Tubing Specs: 2-3/8", 4.7#, N-80, ID: 1.995", Drift: 1.901", Collapse: 11,780 psi, Burst: 11,200 psi (80% 8960 psi), Joint: 104,340 lbs (80% 83,472 lbs)

Capacities:			
	4-1/2"	0.0155 Bbls/ft	0.0873 ft^3/ft
	2-3/8"	0.0039 Bbls/ft	0.0217 ft^3/ft
	4-1/2" x 2-3/8"	0.0101 Bbls/ft	0.0565 ft^3/ft

BH Temperature: 185 °F (estimated)

Completed Intervals: Mancos: 7420' – 7450' (30 holes), 8350' – 8380' (30 holes)

PROCEDURE

1. MIRU service unit.
2. Pump produced water to fill wellbore and kill well. ND wellhead and NU BOP.
3. PU tubing as needed and RIH to tag PBTD. Pull tubing up to 8430' KB.
4. Top off well bore with water. Mix and pump 16 sks (3.3 Bbls) of cement down tubing, displace with 31.5 BW, and pull tubing out to leave balanced cement plug from 8430' to 8250' KB.
5. POOH with tubing.

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6. RIH with a 4-1/2" cement retainer (CICR) on tubing and set it at 7370' KB.
7. Mix and pump 12 sks (2.5 Bbls) of cement and displace so 7 sks (1.4 Bbls) of the cement go below the CICR. Pull out of CICR and to 7300' to dump other 5 sks (1 Bbl) of cement on top of cement retainer.
8. Circulate to fill 4-1/2" casing with 9 ppg mud (110 Bbls).
9. POOH laying down tubing and setting tool.
10. RIH with open-ended tubing to 4850' KB.
11. Mix and pump 11 sks (2.2 Bbls) of cement down tubing, displace with 18 BW, and pull tubing out to leave balanced cement plug from 4850' to 4710' KB.
12. POOH with tubing to 2733' KB.
13. Mix and pump 10 sks (2.0 Bbls) of cement down tubing, displace with 10 BW, and pull tubing out to leave balanced cement plug from 2733' to 2613' KB.
14. Finish POOH with tubing.
15. ND BOP.
16. RIH with a mechanical casing cutter and cut holes in the 4-1/2" casing at 60'. POOH with tubing.
17. Mix and pump 23 sacks (4.7 Bbls) of cement to circulate 60' surface plug into place in 4-1/2" casing and 9-5/8" x 4-1/2" annulus.
18. Cut all casing off 3' below ground level. Weld a plate showing well name, location, and API Number to casing. Back fill as needed to fill cellar and cover well.

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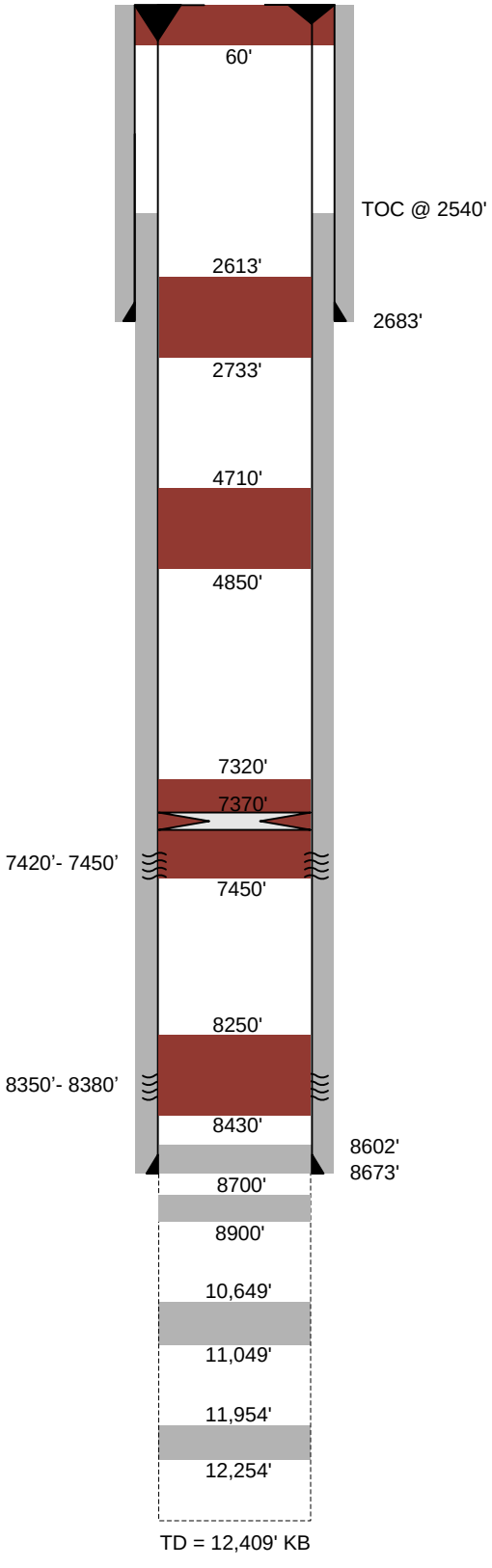
Wind River Resources Corp.
NHC 14-8-15-20
API # 43-047-39646
Flat Rock
SHL: NENW, Section 17, T15S, R20E
Uintah County, Utah

(Not to Scale)

Ground Elevation: 7243'
KB Elevation: 7259'



Deviated Well
Surface Hole: 195' FNL, 2419' FWL, NE-NW, 17-15S-20E
Bottom Hole: SE-SW, 8-15S-20E

Surface Casing
Size/Wt/Grade: 9-5/8", 36#, J-55, STC, 8rd
Depth Landed: 2683' KB
Cement Data: Cement to surface.

Production Casing
Size/Wt/Grade: 4-1/2", 11.6#, P-110 LTC, 8rd
Properties: 10690 psi burst, 3.875" drift, 4.000" ID, 0.0155 Bbl/ft capacity
Depth Landed: 8673' KB
Cemented to: 2540' KB per CBL

Perforations
7420'- 7450', 30 holes – Mancos
8350'- 8380', 30 holes – Mancos

Plugged-Back TD
8602' CBL Tag 11/13/2006

Tubing
Size/Wt/Grade: 2-3/8", 4.7#, N-80, 8rd EUE
EOT @ 8298' KB

= cement
All intervals between cement to be filled with 9 ppg mud

RECEIVED: Mar. 14, 2016